



Professional Tools For ***4 Generations***

## PRODUCT CATALOG

**EST. 1932**

[WWW.LANGTOOLS.COM](http://WWW.LANGTOOLS.COM)



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# Lang Tools

Lang represents hand tools that professional technicians and handymen have used for **over 80 years**, which assures that you are dealing with performance proven consumer preferred, professional high quality products. Visit Lang Tools website at [www.langtools.com](http://www.langtools.com)

## RATCHETING BOX WRENCHES

Let ratcheting Box Wrenches Speed up your job!

- Long Life
- Easy Use
- Quality and Accuracy

Those “hard-to-get-at” nuts and bolts are easy to turn with these top quality ratcheting box wrenches. Openings are accurately broached for that perfect non-slip fit. Critical parts are heat-treated to ensure safety and durability. Wrench handles are nickel-chrome plated for lasting quality and assurance. Exceeds torque capacity requirement of Federal specification ASME B107.100-2010 for ratcheting box wrenches.

Accurately broached sizes for perfect, no-slip fit

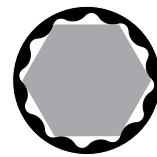
Alloy heat-treated gear wheel for strength and long life

Nickel-chrome plated for lasting appearance

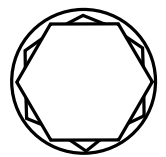
Heat-treated alloy steel for added strength and durability

Fine blank pawls for perfect engagement with gear wheel

***All Lang 6 & 12 point ratcheting box wrenches utilize the “torque grip system”***



**TORQUE GRIP**

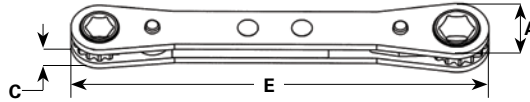


**CONVENTIONAL**

This head design allows use in tight places

# Wrenches

## SAE FLAT



EDP#	Part No.	Description	Point	Weight (Each)	Dimensions		
					A	C	E

### SAE FLAT INDIVIDUAL RATCHETING BOX WRENCHES

5500	RB-810*	1/4" x 5/16"	6	.16 lbs.	19/32"-43/64"	3/8"	4-1/2"
5501	RB-810DH	1/4" x 5/16"	12	.12	19/32"-43/64"	3/8"	4-1/2"
6500	RB-1214*	3/8" x 7/16"	6	.21	51/64"-57/64"	3/8"	5-1/2"
6501	RB-1214DH	3/8" x 7/16"	12	.17	51/64"-57/64"	3/8"	5-1/2"
7522**	7522	3/8" x 1/2"	6	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7514	RB-1218	3/8" x 9/16"	6	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7529	RB-1218DH	3/8" x 9/16"	12	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7517	RB-1416	7/16" x 1/2"	6	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7518	RB-1416DH	7/16" x 1/2"	12	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7500	RB-1618*	1/2" x 9/16"	6	.34	1-1/64"-1-5/32"	1/2"	6-7/8"
7501	RB-1618DH	1/2" x 9/16"	12	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
8512	RB-1820	9/16" x 5/8"	12	.46	1-19/64"-1-7/16"	1/2"	8-1/8"
8513**	8513	9/16" x 3/4"	12	.46	1-19/64"-1-7/16"	1/2"	8-1/8"
8500	RB-2022*	5/8" x 11/16"	12	.50	1-19/64"-1-7/16"	1/2"	8-1/8"
8501	RB-2024	5/8" x 3/4"	12	.46	1-19/64"-1-7/16"	1/2"	8-1/8"
9515	RB-2224	11/16" x 3/4"	12	.46	1-13/32"-1-37/64"	1/2"	9-1/4"
9501	RB-2226	11/16" x 13/16"	12	.50	1-13/32"-1-37/64"	1/2"	9-1/4"
9516	RB-2228	11/16" x 7/8"	12	.50	1-13/32"-1-37/64"	1/2"	9-1/4"
9518	RB-2426	3/4" x 13/16"	12	.50	1-13/32"-1-37/64"	1/2"	9-1/4"
9500	RB-2428*	3/4" x 7/8"	12	.54	1-13/32"-1-37/64"	1/2"	9-1/4"
9520	RB-2628	13/16" x 7/8"	12	.50	1-13/32"-1-37/64"	1/2"	9-1/4"
9521	RB-2630*	13/16" x 15/16"	12	.54	1-13/32"-1-37/64"	1/2"	9-1/4"
9601	RB-3234	1" x 1-1/16"	12	1.38	1-29/32"-2-17/64"	9/16"	15"
9602	RB-3436	1-1/16" x 1-1/8"	12	1.38	1-29/32"-2-17/64"	9/16"	15"
9604	RB-3440	1-1/16" x 1-1/4"	12	1.38	1-29/32"-2-17/64"	9/16"	15"
9603	RB-3638	1-1/8" x 1-3/16"	12	1.38	1-29/32"-2-17/64"	9/16"	15"
9608	RB-3640	1-1/8" x 1-1/4"	12	1.38	1-29/32"-2-17/64"	9/16"	15"
9617**	9617	1" x 1-1/8"	12	1.38	1-29/32"-2-17/64"	9/16"	15"

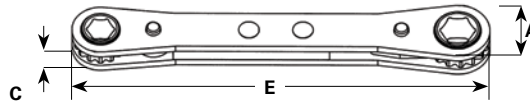
### SAE FLAT INDIVIDUAL AIRCRAFT RATCHETING BOX WRENCHES

5508**	5508	7/32" x 1/4"	6	.12 lbs.	19/32"-43/64"	3/8"	4-1/2"
5532**	5532	1/4" x 9/32"	6	.12	19/32"-43/64"	3/8"	4-1/2"
5516**	5516	5/16" x 11/32"	6	.12	19/32"-43/64"	3/8"	4-1/2"
5517**	5517	7/32" x 11/32"	6	.12	19/32"-43/64"	3/8"	4-1/2"
5520**	5520	1/4" x 11/32"	6	.12	19/32"-43/64"	3/8"	4-1/2"
5526**	5526	5/16" x 11/32"	12	.12	19/32"-43/64"	3/8"	4-1/2"
5527**	5527	7/32" x 11/32"	12	.12	19/32"-43/64"	3/8"	4-1/2"
5528**	5528	9/32" x 11/32"	12	.12	19/32"-43/64"	3/8"	4-1/2"
5531**	5531	1/4" x 9/32"	12	.12	19/32"-43/64"	3/8"	4-1/2"

\*Skin-packed \*\* Available only by special quote (with lead time and minimum order requirements)

# Wrenches

## METRIC FLAT



EDP#	Part No.	Description	Point	Weight (Each)	Dimensions		
					A	C	E
<b>METRIC FLAT INDIVIDUAL RATCHETING BOX WRENCHES</b>							
5504	RBM-0708	7mm x 8mm	6	.12 lbs.	19/32"-43/64"	3/8"	4-1/2"
5506	RBM-0708DH	7mm x 8mm	12	.12	19/32"-43/64"	3/8"	4-1/2"
5585**	5585	6mm x 7mm	12	.12	19/32"-43/64"	3/8"	4-1/2"
6585**	6585	8mm x 9mm	12	.17	51/64"-57/64"	3/8"	5-1/2"
6504	RBM-0910	9mm x 10mm	6	.17	51/64"-57/64"	3/8"	5-1/2"
6506	RBM-0910DH	9mm x 10mm	12	.17	51/64"-57/64"	3/8"	5-1/2"
6507**	6507	8mm x 10mm	12	.17	51/64"-57/64"	3/8"	5-1/2"
7515	RBM-1011DH	10mm x 11mm	12	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7504	RBM-1112	11mm x 12mm	6	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7509	RBM-1112DH	11mm x 12mm	12	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7523	RBM-1113	11mm x 13mm	6	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7586	RBM-1213DH	12mm x 13mm	12	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7524	RBM-1214	12mm x 14mm	6	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7506	RBM-1314	13mm x 14mm	6	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7510	RBM-1314DH	13mm x 14mm	12	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
8587	RBM-1415	14mm x 15mm	12	.46	1-19/64"-1-7/16"	1/2"	8-1/8"
8504	RBM-1517	15mm x 17mm	12	.46	1-19/64"-1-7/16"	1/2"	8-1/8"
8505	RBM-1618	16mm x 18mm	12	.46	1-19/64"-1-7/16"	1/2"	8-1/8"
8506**	RBM-1317	13mm x 17mm	12	.46	1-19/64"-1-7/16"	1/2"	8-1/8"
9504	RBM-1921	19mm x 21mm	12	.50	1-13/32"-1-37/64"	1/2"	9-1/4"

\*\* Available only by special quote (with lead time and minimum order requirements)

## PORTABLE TOOL CADDY



### 5373

#### 5-PIECE SAE RATCHETING BOX WRENCH SET

Part No.	Description	Point
RB-810DH	1/4" x 5/16"	12
RB-1214DH	3/8" x 7/16"	12
RB-1618DH	1/2" x 9/16"	12
RB-2024	5/8" x 3/4"	12
RB-2228	11/16" x 7/8"	12

### 5374

#### 5-PIECE METRIC RATCHETING BOX WRENCH SET

Part No.	Description	Point
RBM-0708DH	7mm x 8mm	12
RBM-0910DH	9mm x 10mm	12
RBM-1213DH	12mm x 13mm	12
RBM-1415	14mm x 15mm	12
RBM-1921	19mm x 21mm	12

# Wrenches

## SAE FLAT



**5433**

### 5-PIECE MULTI-FASTENER WRENCH SET

Part No.	Spline	6-Pt and 12-Pt	TORX®	Square
5549	8 x 10	1/4" x 5/16" (8mm)	E8 x E10	
6543	12 x 14	3/8" x 7/16" (11mm)	E12 x E14	5/16" x 3/8"
7550	16 x 18	1/2" (13mm) x 9/16" (14mm)	E16 x E18	
8528	20 x 22	5/8" (16mm) x 11/16" (17mm)	E20 x E22	1/2" x 9/16"
9549	24 x 28	3/4" (19mm) x 7/8" (22mm)	E24 x E28	5/8"



- Set works on 61 different fasteners
- 7 or more sizes in each wrench

## VINYL POUCH

**RB-312P EDP#5428**

### 3 PC. 12 PT. SAE FLAT WRENCH SET

Part No.	Description	Point
RB-1214	3/8" x 7/16"	12
RB-1618	1/2" x 9/16"	12
RB-2024	5/8" x 3/4"	12



**RB-5 EDP#5485**

### 5-PIECE SAE FLAT WRENCH SET

Part No.	Description	Point
RB-810	1/4" x 5/16"	6
RB-1214	3/8" x 7/16"	6
RB-1618	1/2" x 9/16"	6
RB-2022	5/8" x 11/16"	12
RB-2428	3/4" x 7/8"	12



**RB-6 EDP#5486**

### 6-PIECE SAE FLAT WRENCH SET

Part No.	Description	Point
RB-810	1/4" x 5/16"	6
RB-1214	3/8" x 7/16"	6
RB-1618	1/2" x 9/16"	6
RB-2022	5/8" x 11/16"	12
RB-2428	3/4" x 7/8"	12
RB-2630	13/16" x 15/16"	12



## QUAD



**5435**

### QUAD WRENCH SET STANDARD

Part No.	Description	Point
7503	5/16" x 3/8" X 7/16" x 1/2"	12
8502	9/16" x 5/8" X 11/16" x 3/4"	12

**5436**

### QUAD WRENCH SET METRIC

Part No.	Description	Point
7585	8mm x 10mm X 12mm x 13mm	12
8545	16mm x 17mm X 18mm x 19mm	12

**RB-3P EDP#5483**

### 3-PIECE SAE FLAT WRENCH SET

Part No.	Description	Point
RB-810	1/4" x 5/16"	6
RB-1214	3/8" x 7/16"	6
RB-1618	1/2" x 9/16"	6

**RBM-5 EDP#5490**

### 5 PC. METRIC FLAT WRENCH SET

Part No.	Description	Point
RBM-0708	7mm x 8mm	6
RBM-0910	9mm x 10mm	6
RBM-1113	11mm x 13mm	6
RBM-1214	12mm x 14mm	6
RBM-1517	15mm x 17mm	12

## ROLL POUCH

**RBM-7 EDP#5491**

### 7 PC. METRIC FLAT WRENCH SET

Part No.	Description	Point
RBM-0708	7mm x 8mm	6
RBM-0910	9mm x 10mm	6
RBM-1113	11mm x 13mm	6
RBM-1214	12mm x 14mm	6
RBM-1517	15mm x 17mm	12
RBM-1618	16mm x 18mm	12
RBM-1921	19mm x 21mm	12

## EXTRA LONG



Part no.	Description	Point	Weight (Each)	Dimensions		
				A	C	E

### SAE INDIVIDUAL LARGE RATCHETING BOX WRENCHES

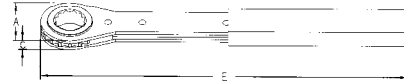
6660	1/4" x 5/16"	12	.30 lbs.	51/64"-57/64"	3/8"	8"
7660	3/8" x 7/16"	12	.70	1-1/64"-1-5/32"	1/2"	10"
7661	1/2" x 9/16"	12	.70	1-1/64"-1-5/32"	1/2"	10"
8660	5/8" x 11/16"	12	.80	1-19/64"-1-7/16"	1/2"	12"
9660	3/4" x 7/8"	12	.90	1-29/32"-2-17/64"	9/16"	14"

### METRIC INDIVIDUAL LARGE RATCHETING BOX WRENCHES

6665	8mm x 10mm	12	.30 lbs.	51/64"-57/64"	3/8"	8"
7665	12mm x 14mm	12	.70	1-1/64"-1-5/32"	1/2"	10"
8665	13mm x 15mm	12	.80	1-19/64"-1-7/16"	1/2"	12"
8666	17mm x 19mm	12	.80	1-19/64"-1-7/16"	1/2"	12"
9665	18mm x 21mm	12	.90	1-29/32"-2-17/64"	9/16"	14"

## LARGE RATCHETING BOX WRENCHES

For Heavy Duty Equipment and Industrial Applications



- Built for those tough jobs where lots of torque, leverage & durability are required
  - Requires less effort than a conventional combination wrench
- Great for: Agricultural, construction, utility, mining, industrial equipment and much more!*

EDP#	Part No.	Description	Point	Weight (Each)	Dimensions		
					A	C	E

### SAE INDIVIDUAL LARGE RATCHETING BOX WRENCHES

9630	RB-42	1-5/16"	12	3.2 lbs.	2-3/4"	5/8"	15-1/2"
9631	RB-44	1-3/8"	12	3.2	2-3/4"	5/8"	15-1/2"
9632	RB-46	1-7/16"	12	3.2	2-3/4"	5/8"	15-1/2"
9633	RB-48	1-1/2"	12	3.2	2-3/4"	5/8"	15-1/2"
9634	RB-50	1-9/16"	12	3.2	2-3/4"	5/8"	15-1/2"
9635	RB-52	1-5/8"	12	3.2	2-3/4"	5/8"	15-1/2"
9650	RB-54	1-11/16"	12	4.1	3-3/8"	5/8"	19"
9651	RB-56	1-3/4"	12	4.1	3-3/8"	5/8"	19"
9652	RB-58	1-13/16"	12	4.1	3-3/8"	5/8"	19"
9653	RB-60	1-7/8"	12	4.1	3-3/8"	5/8"	19"
9654	RB-64	2"	12	4.1	3-3/8"	5/8"	19"
9655	RB-68	2-1/8"	12	4.1	3-3/8"	5/8"	19"

### METRIC INDIVIDUAL LARGE RATCHETING BOX WRENCHES

9620	RBM-22	22mm	12	1.0 lbs.	1-15/16"	9/16"	12"
9623	RBM-23	23mm	12	1.0	1-15/16"	9/16"	12"
9622	RBM-24	24mm	12	1.0	1-15/16"	9/16"	12"
9624	RBM-25	25mm	12	1.0	1-15/16"	9/16"	12"
9625	RBM-26	26mm	12	1.0	1-15/16"	9/16"	12"
9626	RBM-27	27mm	12	1.0	1-15/16"	9/16"	12"
9627	RBM-29	29mm	12	1.0	1-15/16"	9/16"	12"
9629	RBM-30	30mm	12	1.0	1-15/16"	9/16"	12"
9640	RBM-32	32mm	12	3.2	2-3/4"	5/8"	15-1/2"
9641	RBM-36	36mm	12	3.2	2-3/4"	5/8"	15-1/2"

# Wrenches

## INDUSTRIAL FINISH

Lang's industrial finish ratcheting box wrenches have black oxide finish so they can be used in aerospace applications requiring non-plated tools. \*\*Available only by special quote (with lead time and minimum order requirements).



## LATCH-ON RATCHETING BOX WRENCHES

- Built-in non-slip retaining ring feature in each ratcheting wheel permits ultimate speed and comfort when turning fasteners
- A nut can be tightened or loosened up to 5x faster than using a conventional ratcheting wrench



Latch-on™ wheel with built-in retaining ring



Conventional box wrench opening

### 5422

#### 5-PC. SAE LATCH-ON™ RATCHETING BOX WRENCH SET

Part No.	Description	Point
5971	1/4" x 5/16"	12
6971	3/8" x 7/16"	12
7971	1/2" x 9/16"	12
8971	5/8" x 3/4"	12
9971	11/16" x 7/8"	12



Individual wrenches available.

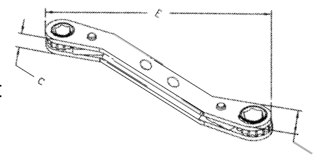
### 5424

#### 5-PC. METRIC LATCH-ON™ RATCHETING BOX WRENCH SET

Part No.	Description	Point
5974	7mm x 8mm	12
6974	9mm x 10mm	12
7973	11mm x 12mm	12
7975	13mm x 14mm	12
8975	15mm x 17mm	12

## SAE OFFSET

The 25° angle at each end of these wrenches allows reach to those tight applications without scraping knuckles and still provided the speed and convenience of a ratcheting box wrench. Reverse direction by simply flipping the reversing lever



EDP#	Part No.	Description	Point	Weight (Each)	Dimensions		
					A	C	E

### SAE OFFSET INDIVIDUAL RATCHETING BOX WRENCHES

5700	ROW-0810*	1/4" x 5/16"	6	.16 lbs.	19/32"-43/64"	3/8"	4-1/4"
5701	ROW-0810DH	1/4" x 5/16"	12	.13	19/32"-43/64"	3/8"	4-1/4"
6700	ROW-1214*	3/8" x 7/16"	6	.24	51/64"-57/64"	3/8"	5-7/16"
6701	ROW-1214DH	3/8" x 7/16"	12	.20	51/64"-57/64"	3/8"	5-7/16"
7717**	7717	7/16" x 1/2"	6	.30	1-1/64"-1-5/32"	1/2"	6-3/4"
7700	ROW-1618*	1/2" x 9/16"	6	.34	1-1/64"-1-5/32"	1/2"	6-3/4"
7701	ROW-1618DH	1/2" x 9/16"	12	.30	1-1/64"-1-5/32"	1/2"	6-3/4"
8712**	8712	9/16" x 5/8"	12	.44	1-19/64"-1-7/16"	1/2"	8"
8713**	8713	9/16" x 3/4"	12	.44	1-19/64"-1-7/16"	1/2"	8"
8700	ROW-2022A	5/8" x 11/16"	12	.44	1-19/64"-1-7/16"	1/2"	8"
8701	ROW-2024*	5/8" x 3/4"	12	.48	1-19/64"-1-7/16"	1/2"	8"
9701**	9701	11/16" x 13/16"	12	.51	1-13/32"-1-37/64"	1/2"	9-1/8"
9781	ROW-2228	11/16" x 7/8"	12	.51	1-13/32"-1-37/64"	1/2"	9-1/8"
9700	ROW-2428*	3/4" x 7/8"	12	.55	1-13/32"-1-37/64"	1/2"	9-1/8"
9721	ROW-2630	13/16" x 15/16"	12	.51	1-13/32"-1-37/64"	1/2"	9-1/8"

### SAE OFFSET INDIVIDUAL AIRCRAFT RATCHETING BOX WRENCHES

5709**	5709	7/32" x 9/32"	12	.13 lbs.	19/32"-43/64"	3/8"	4-1/4"
5717	ROW-1011DH	5/16" x 11/32"	12	.13	19/32"-43/64"	3/8"	4-1/4"

# Wrenches

## METRIC OFFSET

EDP#	Part No.	Description	Point	Weight (Each)	Dimensions		
					A	C	E

### METRIC OFFSET INDIVIDUAL RATCHETING BOX WRENCHES

5704	ROWM-0708A	7mm x 8mm	6	.12 lbs.	19/32"-43/64"	3/8"	4-1/4"
5706	ROWM-0708DH	7mm x 8mm	12	.12	19/32"-43/64"	3/8"	4-1/4"
6704	ROWM-0910*	9mm x 10mm	6	.17	51/64"-57/64"	3/8"	5-7/16"
6705	ROWM-0910DH	9mm x 10mm	12	.17	51/64"-57/64"	3/8"	5-7/16"
7704	ROWM-1112	11mm x 12mm	6	.30	1-1/64"-1-5/32"	1/2"	6-3/4"
7505	ROWM-1112DH	11mm x 12mm	12	.30	1-1/64"-1-5/32"	1/2"	6-3/4"
7723	ROWM-1113*	11mm x 13mm	6	.30	1-1/64"-1-5/32"	1/2"	6-3/4"
7786	ROWM-1213DH	12mm x 13mm	12	.30	1-1/64"-1-5/32"	1/2"	6-3/4"
7724	ROWM-1214*	12mm x 14mm	6	.30	1-1/64"-1-5/32"	1/2"	6-3/4"
7706	ROWM-1314	13mm x 14mm	6	.30	1-1/64"-1-5/32"	1/2"	6-7/8"
7710	ROWM1314DH	13mm x 14mm	12	.30	1-1/64"-1-5/32"	1/2"	6-3/4"
8787	ROWM-1415	14mm x 15mm	12	.46	1-19/64"-1-7/16"	1/2"	8"
8704	ROWM-1517	15mm x 17mm	12	.46	1-19/64"-1-7/16"	1/2"	8"
8705	ROWM-1618	16mm x 18mm	12	.46	1-19/64"-1-7/16"	1/2"	8"
9704	ROWM-1921	19mm x 21mm	12	.50	1-13/32"-1-37/64"	1/2"	9-1/8"

\*Skin-packed \*\* Available only by special quote (with lead time and minimum order requirements)

## PORTABLE TOOL CADDY

### 5362

#### 5-PIECE SAE OFFSET CADDY WRENCH SET

Part No.	Description	Point
ROW-0810DH	1/4" x 5/16"	12
ROW-1214DH	3/8" x 7/16"	12
ROW-1618DH	1/2" x 9/16"	12
ROW-2024	5/8" x 3/4"	12
ROW-2228	11/16" x 7/8"	12



### 5363

#### 5-PIECE METRIC OFFSET CADDY WRENCH SET

Part No.	Description	Point
ROWM-0708DH	7mm x 8mm	12
ROWM-0910DH	9mm x 10mm	12
ROWM-1213DH	12mm x 13mm	12
ROWM-1415	14mm x 15mm	12
ROWM-1921	19mm x 21mm	12

### 5434

#### 5-PIECE MULTI-FASTENER WRENCH SET

Part No.	Spline	6-Pt and 12-Pt	TORX®	Square
5749	8 x 10	1/4" x 5/16" (8mm)	E8 x E10	
6743	12 x 14	3/8" x 7/16" (11mm)	E12 x E14	5/16" x 3/8"
7750	16 x 18	1/2" (13mm) x 9/16" (14mm)	E16 x E18	
8728	20 x 22	5/8" (16mm) x 11/16" (17mm)	E20 x E22	1/2" x 9/16"
9749	24 x 28	3/4" (19mm) x 7/8" (22mm)	E24 x E28	5/8"



- Set works on 61 different fasteners
- 7 or more sizes in each wrench



# Wrenches

## ROLL POUCH

### ROWM-7P EDP#5497

#### 7 PC. METRIC OFFSET WRENCH SET

Part No.	Description	Point
ROWM-0708	7mm x 8mm	6
ROWM-0910	9mm x 10mm	6
ROWM-1113	11mm x 13mm	6
ROWM-1214	12mm x 14mm	6
ROWM-1517	15mm x 17mm	12
ROWM-1618	16mm x 18mm	12
ROWM-1921	19mm x 21mm	12



## VINYL POUCH

### ROW-3 EDP5493

#### 3-PC. SAE OFFSET WRENCH SET

Part No.	Description	Point
ROW-0810	1/4" x 5/16"	6
ROW-1214	3/8" x 7/16"	6
ROW-1618	1/2" x 9/16"	6



## VINYL POUCH

### ROW-5 EDP#5495

#### 5-PC. SAE OFFSET WRENCH SET

Part No.	Description	Point
ROW-0810	1/4" x 5/16"	6
ROW-1214	3/8" x 7/16"	6
ROW-1618	1/2" x 9/16"	6
ROW-2022	5/8" x 11/16"	12
ROW-2428	3/4" x 7/8"	12



### ROWM-5 EDP#5496

#### 5 PC. METRIC OFFSET WRENCH SET

Part No.	Description	Point
ROWM-0708	7mm x 8mm	6
ROWM-0910	9mm x 10mm	6
ROWM-1113	11mm x 13mm	6
ROWM-1214	12mm x 14mm	6
ROWM-1517	15mm x 17mm	12



## OFFSET E-Z GRIP

- Our offset E-Z GRIP ratcheting box wrenches combine the speed of a ratcheting box wrench with the comfort of a screwdriver-style handle to create the ultimate fastener turning tool
- Easy thumb-operated reversing lever
- Especially useful for bench type repetitive applications

EDP#	Part No.	Size	Point	Length	Wt. (ea.)	EDP#	Part No.	Size	Point	Length	Wt. (ea.)
<b>SAE OFFSET RATCHETING BOX WRENCHES</b>						<b>METRIC OFFSET RATCHETING BOX WRENCHES</b>					
6789	ROW-08	1/4"	6	5-1/2"	.25 lbs.	6794	ROWM-08	8mm	6	5-1/2"	.25 lbs.
6790	ROW-10	5/16"	6	5-1/2"	.25	6795	ROWM-9	9mm	6	5-1/2"	.25
6791	ROW-12	3/8"	6	5-1/2"	.25	6796	ROWM-10	10mm	6	5-1/2"	.25
6792	ROW-14	7/16"	6	5-1/2"	.25	7795	ROWM-11	11mm	6	6-3/4"	.43
7791	ROW-16	1/2"	6	6-3/4"	.43	7796	ROWM-12	12mm	6	6-3/4"	.43
7792	ROW-18	9/16"	6	7	.43	7797	ROWM-13	13mm	6	6-3/4"	.43
8791	ROW-20	5/8"	12	7-3/4"	.50	7798	ROWM-14	14mm	6	7"	.50
8792	ROW-22	11/16"	12	8"	.56	8795	ROWM-15	15mm	12	7-3/4"	.50
9791	ROW-24	3/4"	12	8-3/4"	.56	8796	ROWM-16	16mm	12	7-3/4"	.50
9792	ROW-28	7/8"	12	9"	.62	8797	ROWM-17	17mm	12	8"	.56
						8798	ROWM-18	18mm	12	8"	.56

## STYRENE TRAY

### 5475

#### 5-PC. OFFSET SAE E-Z GRIP WRENCH SET



Part No.	Description	Point
ROW-12	3/8"	6
ROW-14	7/16"	6
ROW-16	1/2"	6
ROW-18	9/16"	6
ROW-20	5/8"	12

### 5476

#### 5-PC. OFFSET METRIC E-Z GRIP WRENCH SET



Part No.	Description	Point
ROWM-8	8mm	6
ROWM-10	10mm	6
ROWM-13	13mm	6
ROWM-14	14mm	6
ROWM-15	15mm	12

## SQUARE DRIVE

### Air Conditioning and Refrigerator Ratcheting Box Wrenches

- Specifically designed for servicing automotive, commercial and home air conditioners, refrigeration units and freezers
- Reversing feature on both ends
- Four sizes in each wrench

### 9902A

**1/4" X 3/16" SQ. X 9/16" X  
1/2" 6-PT. AC AND REFRIG.  
WRENCH**



### 9903A

**3/8" X 5/16" SQ. X 1/4" X  
3/16" SQ. AC AND REFRIG.  
WRENCH**



### 9907A

**3/8" X 5/16" SQ. X 1/4" X  
3/16" SQ. OFFSET AC AND  
REFRIG. WRENCH**



Part No.	4-in-1 ratchet sizes	Length
9902A	1/4" x 3/16" square X 1/2" x 9/16" 6-pt.	7"
9903A	3/8" x 5/16" X 1/4" x 3/16" square	5-1/2"
9907A	3/8" x 5/16" X 1/4" x 3/16" square OFFSET	5-7/32"

# Wrenches

## BIT WRENCH SETS WITH MAGNETIC BIT RETENTION

- Use with any 1/4" drive bit as a ratcheting screwdriver or a 1/4" adapter enabling use of a 1/4" socket to access restricted applications
- Readily accessible reversing lever for one-hand use
- Raised knurl design allows fingertip control for loose screws

### 5220

#### 7-PC. FINE TOOTH BIT WRENCH SET



- 5° ratchet increment function for increased accessibility
- Contains: (1) 15° offset wrench, (1) 15° reverse offset wrench, (1) flat wrench, and (4) bits
- Bit Sizes: #1 and #2 Phillips®; 1/4" and 9/32" Slotted

### 5221

#### 5-PC. FINE TOOTH BIT WRENCH SET



- 5° ratchet increment function for increased accessibility
- Contains: (1) 15° offset wrench and (4) bits
- Bit Sizes: #1 and #2 Phillips®; 1/4" and 9/32" Slotted

### 5278

#### 7-PC. RATCHETING SCREW-DRIVER BIT WRENCH SET



- Contains: (1) 25° offset wrench, (1) 25° reverse offset wrench, (1) flat wrench, and (4) bits
- Bit Sizes: #1 and #2 Phillips®; 1/4" and 9/32" Slotted

### 5345

#### 5-PC. REVERSE OFFSET RATCHETING SCREWDRIVER BIT WRENCH SET



- Contains: (1) 25° reverse offset wrench and (4) bits
- Bit Sizes: #1 and #2 Phillips®; 1/4" and 9/32" Slotted

### 5370

#### 5-PC. OFFSET RATCHETING SCREWDRIVER BIT WRENCH SET



- Contains: (1) 25° offset wrench and (4) bits
- Bit Sizes: #1 and #2 Phillips®; 1/4" and 9/32" Slotted

### 5382

#### 2-PC. 72-TOOTH BIT WRENCH SET



- 5° ratchet increment function for increased accessibility
- Contains: (1) 15° offset wrench and (1) 1/4" adapter

### 5429

#### 20 PC. 5/16" EXTRA LONG WRENCH WITH STUBBY BITS



- For general purpose applications (i.e., home, automotive, etc.)
- Magnetic bit retention for easy change of bits
- Exceeds applicable torque standards
- Stubby Bits included:
  - 7-Pc. Six-pt. Bit Set (Sizes: 3, 4, 5, 6, 8, 10 and 12mm)
  - 7-Pc. TORX® Bit Set (Sizes T15, T20, T25, T27, T30, T40 and T45)
  - 5-Pc. Triple Square Bit Set (Sizes 5, 6, 8, 10 & 12mm)

### 5457

#### 35-PC. RATCHETING SCREWDRIVER BIT WRENCH SET



- Set contains Thirty-two (32) bits made up of TORX®, Phillips®, Hex, Pozidriv®, Clutch, Slotted, and Robertson; two (2) ratcheting wrench drivers, one (1) magnetic 1/4" extension 4-1/2" in length
- 1/4" Bits included: TORX® T-10, T-15, T-20, T-25, T-27, T-30; PHILLIPS® - P-1, P-2; HEX - 5/64", 3/32", 7/64", 1/8", 9/64", 7/32", 1/4"; POZIDRIV® - PZ-1, PZ-2; CLUTCH - C-2, C-3, C-4; SLOTTED - 4-5, 6-8, 8-10, ROBERTSON - R-1, R-2, R-3, 1/4" ADAPTER
- 5/16" Bits included: TORX® T-40, T-45, T-50; HEX - 5/32", 3/16"
- One ratcheting wrench is flat and the other is offset 25°. The double end design on both will accommodate 1/4" and 5/16" drive bits

# Serpentine Belt Wrenches

- Releases the tension on spring-loaded idler pulleys
- Allows direct access to the tensioner without having to remove engine accessories or frame components
- This can be done by rotating the drive end on the wrench to match the position of the serpentine belt tensioner
- Ratcheting feature allows quick and easy positioning to access the tensioner from any angle
- Heat-treated and nickel-chrome plated for strength, durability, appearance, and long tool life
- Slim head design for access to restricted areas

## INDIVIDUAL RATCHETING WRENCHES

**8579**

**RATCHETING SERPENTINE  
BELT WRENCH 15MM 6-PT.  
X 3/8" MALE SQUARE X  
16MM 6-PT.**



**8585**

**RATCHETING SERPENTINE  
BELT WRENCH 13MM X  
14MM 6-PT. X 18MM 6-PT.  
X 1/2" MALE SQUARE**



**8586**

**RATCHETING SERPENTINE  
BELT WRENCH 15MM 6-PT.  
X 3/8" MALE SQUARE X 16MM  
6-PT. X 1/2" MALE SQUARE**



**8591**

**RATCHETING SERPENTINE  
BELT WRENCH 14MM X  
17MM 6-PT. X 19MM 6-PT.  
X 3/4" MALE SQUARE**



**8592**

**RATCHETING SERPENTINE  
BELT WRENCH 15MM 6-PT.  
X 3/8" MALE SQUARE X  
13MM X 14MM 6-PT.**



**8593**

**SERPENTINE BELT WRENCH  
FOR HEAVY-DUTY TRUCKS**



- Used to release serpentine belt tensioners with 1/2" square drive openings
- 13" reversible ratcheting wrench
- Low profile for better access to contained areas

## RATCHETING WRENCH SETS

**5339**

**2-PC. RATCHETING SERPENTINE BELT WRENCH SET  
FOR IMPORT VEHICLES**

- No. 8591 - 14mm x 17mm 6-pt. x 19mm 6-pt. x 3/4" male square
- No. 8592 - 15mm 6-pt. x 3/8" male square x 13mm x 14mm 6-pt.



**5344**

**3-PC. UNIVERSAL RATCHETING SERPENTINE BELT WRENCH SET**

- No. 8579 - 15mm 6-pt. x 3/8" male square x 16mm 6-pt.
- No. 8585 - 13mm x 14mm 6-pt. x 18mm 6-pt. x 1/2" male square
- No. 8591 - 14mm x 17mm 6-pt. x 19mm 6-pt. x 3/4" male square



**8584**

**2-PC. RATCHETING SERPENTINE BELT WRENCH SET**

- No. 8579 - 15mm 6-pt. x 3/8" male square x 16mm 6-pt.
- No. 8585 - 13mm x 14mm 6-pt. x 18mm 6-pt. x 1/2" male square



**8572**

**SERPENTINE BELT WRENCH SET FOR BMW ENGINES**

- Set contains one 17mm single hex box wrench, and two 17mm drive end adapters with 8mm and 16mm working ends



# Serpentine Belt Wrenches

## RATCHETING WRENCH SETS

### 5333

#### 9-PIECE FINE TOOTH SERPENTINE BELT WRENCH SET

- Fine Tooth ratcheting action allows quick and easy positioning of wrench-driving end for tensioner access from any angle
- Interchangeable adapters allow service to most serpentine belt applications
- Set includes eight adapters:
  - 6-Point/Square Drive
  - 13mm (1/2"), 14mm (9/16"), 15mm, 3/8"
  - 16mm (5/8"), 18mm, 19mm (3/4"), 1/2"

#### Applications:

- 6-Point
  - 13 mm or 1/2": GM "Quad 4" 2.3L; Volkswagen 2.0L
  - 14 mm: Isuzu 3.1L; Lexus 2.5L, 3.0L, 4.0L; Mazda 2.3L, 3.0L, 4.0L; Saturn
  - 14mm: 1.9L with hex on idler pulley; Toyota 3.0L; Volkswagen 1.8L, 2.5L, 2.8L
  - 15 mm: GM 2.2L; Isuzu 2.8L; Jeep 4.7L
  - 16 mm or 5/8": Ford/Lincoln/Mercury 2.3L, 3.8L, 4.0L, 4.9L, 5.0L, 5.8L; GM 4.3L, 5.0L, 5.7L
  - 18 mm: GM 2.0L, 3.1L, 3.3L, 3.4L, 3.8L
  - 19 mm: or 3/4" (use with 15mm adapter for extra reach): Mercedes; Toyota 1.8L, 2.4L Square
- Square
  - 3/8": Ford/Lincoln/Mercury 1.9L, 2.3L, 2.5L, 4.0L; GM 2.0L, 2.2L, 2.8L, 3.1L, 3.4L; Isuzu 2.8L, 3.1L
  - 1/2": Dodge/Chrysler/Plymouth 2.0L, 3.0L; Ford/Lincoln/Mercury 3.0L, 4.2L 4.6L; GM 2.5L, 4.9L, 5.0L, 5.7L; Mitsubishi 3.0L

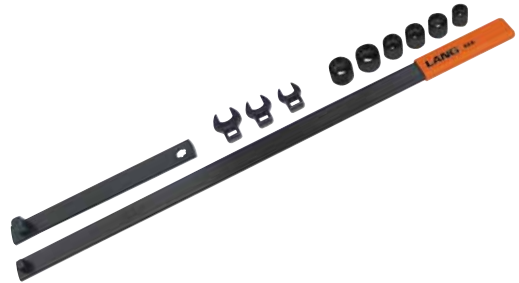


## NON-RATCHETING

### 3414

#### SERPENTINE BELT WRENCH SET

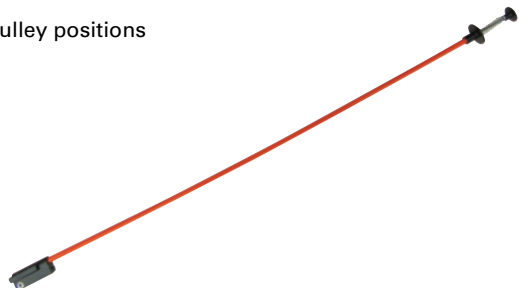
- Used to release tension on serpentine belt self-adjusting idler pulleys
- Set Includes:
  - 3/8" drive bar for sockets and crowfoot wrenches
  - 1/2" square drive bar
  - 15mm, 16mm, 18mm 3/8" drive 12 point sockets
  - 13mm, 14mm, 15mm 3/8" drive crowfoot wrenches



### 5139

#### FLEXIBLE LIGHTED SERPENTINE BELT TOOL

- Flexible serpentine belt tool allows for easy adjustment of belt around various pulley positions
- LED lighted portion of tool ensures easy visibility in dark engine compartments
- Extra-long 33" length allows for deeper reach around crank shaft pulley
- Reverse gripping feature allows for two handed positioning of tool



# Fan Clutch Wrenches

- Remove and install the fan clutch thermostatic fan assembly on many models when repairing or replacing water pump, timing chain, or the fan clutch
- Use with 1/2" square drive tools and a torque wrench
- Individual and set configurations listed in chart below

**3136**

## FORD FAN CLUTCH WRENCH SET



**3296**

## FORD DIESEL FAN CLUTCH WRENCH SET



**3472**

## FAN CLUTCH WRENCH SET



**41570**

## FAN CLUTCH WRENCH SERVICE KIT



Part Number	Product Description	Fan Clutch Wrench Set 3136	Fan Clutch Wrench Set 3296	Fan Clutch Wrench Set 3472	Fan Clutch Wrench Set 41570
3136-36	<b>36mm Fan Clutch Wrench</b> Used to remove/replace the thermostatic fan assembly on: -Ford 4.9L E and F Series truck engines (1984-1993) -Ford 4.6L modular engines -Ford 2.8L engines (1984-1987) -Ford 2.9-3.0L engines (1988-current) -Ford 4.0L engines (1990-current)	•		•	•
3136-58	<b>58mm Short Fan Clutch Wrench</b> Used to install/remove thermostatic fan assembly in Fords	•			
3296-83	<b>83mm Short Fan Clutch Wrench</b> Used to install/remove thermostatic fan assembly in Ford Diesels, Ford 6.9L and 7.3L engines		•		
3422	<b>40mm Fan Clutch Wrench</b> Removes thermostatic fan assembly on 1993-current 4.9L Ford engines  Use in conjunction with 8mm Short Wrench of Universal Pulley Holder			•	•
3473	<b>47mm Fan Clutch Wrench</b> Used to install/remove thermostatic fan assembly in Ford Diesels				•
3474	<b>48mm Fan Clutch Wrench</b> Used to install/remove thermostatic fan assembly in Ford Diesels, Ford 6.9L and 7.3L engines		•		
3900	<b>Universal Pulley Holder with pin set (5x8mm)</b> Holds both bolted-on and pressed-on pulleys found on many vehicles			•	•
3903	<b>22mm Fan Clutch Wrench</b> Used to install/remove thermostatic fan assembly in Fords				•
3904	<b>50mm Fan Clutch Wrench</b> Used to install/remove thermostatic fan assembly in Fords & Internationals				•

**3901**

## SMALL PULLEY HOLDER PIN SET



- 5mm x 8mm

**3902**

## LARGE PULLEY HOLDER PIN SET



- 6mm x 10mm and 7.5mm x 18mm

# Retaining Ring Pliers

## FIXED TIP RETAINING RING PLIERS

- Pliers are convertible for use on internal and external snap rings with cushioned grip handles
- Pliers have a knurled center screw with spring for easy changing and secure hold
- Sets are packaged in a plastic blow molded case for protection and easy use



**3495**  
**12 PIECE COMBINATION**  
**INTERNAL/EXTERNAL**  
**SNAP RING PLIERS SET**



- 0.038", 0.047", 0.070" and 0.090" tip diameter
- 0°, 45° and 90° offsets

**3497**  
**6 PIECE COMBINATION**  
**INTERNAL/EXTERNAL**  
**SNAP RING PLIERS SET**



- 0.038", 0.047" and 0.070" tip diameter
- 0° and 90° offsets

Part No.	Tip Diameter (in.)	Tip Angle	Numinal length (in.)
3483	.038	0°	6
3484	.038	45°	6
3485	.038	90°	6
3486	.047	0°	6
3487	.047	45°	6
3488	.047	90°	6
3489	.070	0°	7-1/2
3490	.070	45°	7-1/2
3491	.070	90°	7-1/2
3492	.090	0°	9-1/4
3493	.090	45°	9-1/4
3494	.090	90°	9-1/4

# Quick Switch Pliers

## CONVERTABLE RETAINING RING PLIERS

- Convert between internal and external with a quick flip of a switch
- A once relatively time consuming and complicated process is made easy by eliminating the jaw aligning pushpin process
- Double-dipped custom grip made of low-temp, high-impact material for comfort and durability
- Spring return handles
- Each pliers includes a tip kit containing durable alloy, color-coded interchangeable tips and hex key, all stored in a handy pouch
- Most user-friendly convertible pliers on the market
- Patented

### 1421

#### QUICK SWITCH PLIERS WITH ADJUSTABLE STOP AND TIP KIT

### 1434

#### QUICK SWITCH PLIERS WITH TIP KIT

### 1435

#### QUICK SWITCH PLIERS WITH ADJUSTABLE STOP AND TIP KIT



### 75

#### QUICK SWITCH PLIERS WITH AUTOMATIC RATCHET LOCK AND TIP KIT



- Automatic ratchet lock feature keeps rings open or closed for easy installation and removal

### 1450

#### 2-PC. QUICK SWITCH RETAINING RING PLIERS SET



- Contains one each of the 1421 and 1434 models along with 5 pairs of color-coded, interchangeable tips and hex key for each (10 total)
- Packed in plastic tray for easy storage

### 1465

#### 3-PC. QUICK SWITCH RETAINING RING PLIERS SET

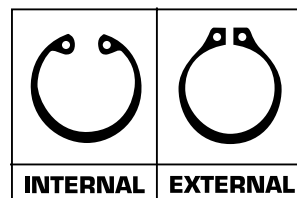


- Contains one each of the 1421, 1434 and 75 model pliers
- Includes 3 tip kits; one each containing 5 pairs of color-coded, interchangeable tips and hex key
- Packed in blow molded case

# Quick Switch Pliers

## CONVERTABLE RETAINING RING PLIERS

Part No.	Description	Ring Size	
		SAE (Inch)	Metric
<b>1421</b>	Internal	1/4" - 1"	7mm - 26mm
	External	1/8" - 1"	3mm - 26mm
<b>1434</b>	Internal	3/8" - 2"	10mm - 51mm
	External	1/4" - 2"	7mm - 51mm
<b>1435</b>	Internal	3/8" - 2"	10mm - 51mm
	External	1/4" - 2"	7mm - 51mm
<b>75</b>	Internal	1-13/16" - 4"	46mm - 102mm
	External	1-1/2" - 4"	32mm - 102mm
<b>1450</b>	Internal	1/4" - 2"	7mm - 51mm
	External	1/8" - 2"	3mm - 51mm
<b>1465</b>	Internal	1/4" - 4"	7mm - 102mm
	External	1/8" - 4"	3mm - 102mm



Part No.	Tips	Tip Sizes	
		SAE (Inch)	Metric
<b>1421</b>	Straight	0.023", 0.039", 0.047"	0.6mm, 1.0mm, 1.2mm
	Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
<b>1434</b>	Straight	0.039", 0.047", 0.074"	1.0mm, 1.2mm, 1.9mm
	Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
<b>1435</b>	Straight	0.039", 0.047", 0.074"	1.0mm, 1.2mm, 1.9mm
	Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
<b>75</b>	Bent 15°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
	Bent 70°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
<b>1450</b>	Straight	0.023", 0.039", 0.047", 0.074"	0.6mm, 1.0mm, 1.2mm, 1.9mm
	Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
<b>1465</b>	Straight	0.023", 0.039", 0.047", 0.074"	0.6mm, 1.0mm, 1.2mm, 1.9mm
	Bent 15°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
	Bent 70°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
	Bent 90°	0.039", 0.047"	1.0mm, 1.2mm

## REPLACEABLE TIP PLIERS

- One tool handles different size rings by changing tips
- Spring return and cushioned grips

### 1445

#### INTERNAL SNAP RING PLIERS

### 1446

#### EXTERNAL SNAP RING PLIERS



Part No.	Description	Ring Size	
		SAE (Inch)	Metric
<b>1445</b>	Internal	3/8" - 2"	10mm - 51mm
<b>1446</b>	External	1/4" - 2"	7mm - 51mm

Tips	Tip Sizes	
	SAE (Inch)	Metric
Bent 15°	0.039", 0.047", 0.074"	1.0mm, 1.2mm, 1.9mm
Bent 45°	0.039"	1.0mm
Bent 90°	0.047"	1.2mm

## REPLACEABLE TIP PLIERS

**87**

### HEAVY-DUTY PLIERS WITH TIP KIT



- Provides safe and stable service of extra large retaining rings
- Compound screw lever for easy ring installation and removal
- Durable heat treated alloy steel components provide reliability of use not available with other tools for servicing this range of rings

Part No.	Description	Ring Size	
		SAE (Inch)	Metric
<b>87</b>	Internal	3-1/2" - 7"	90mm - 175mm
	External	3-1/2" - 7"	90mm - 175mm

Part No.	Tips	Tip Sizes	
		SAE (Inch)	Metric
<b>87</b>	Bent 20°	0.120", 0.150", 0.180"	3.0mm, 3.8mm, 4.6mm
	Bent 72°	0.120", 0.150", 0.180"	3.0mm, 3.8mm, 4.6mm

## RETAINING RING PLIERS TIP KITS

Part No.	Models	Tips	Tip Sizes	
			SAE (Inch)	Metric
<b>12</b>	1421	Straight	0.023", 0.039", 0.047"	0.6mm, 1.0mm, 1.2mm
		Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
<b>14</b>	1434, 1435	Straight	0.039", 0.047", 0.074"	1.0mm, 1.2mm, 1.9mm
		Bent 90°	0.039", 0.047"	1.0mm, 1.2mm
<b>1447</b>	1434, 1435, 1445, 1446	Bent 15°	0.039", 0.047", 0.074"	1.0mm, 1.2mm, 1.9mm
		Bent 45°	0.039"	1.0mm
		Bent 90°	0.047"	1.2mm
<b>1448</b>	1434, 1435, 1445, 1446	Bent 15°	0.039", 0.047", 0.074"	1.0mm, 1.2mm, 1.9mm
		Bent 45°	0.039", 0.047", 0.074"	1.0mm, 1.2mm, 1.9mm
		Bent 90°	0.039", 0.047", 0.074"	1.0mm, 1.2mm, 1.9mm
<b>6515</b>	75	Bent 15°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
<b>6590</b>	75	Bent 70°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
<b>651590</b>	75	Bent 15°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
		Bent 70°	0.090", 0.108", 0.120"	2.3mm, 2.7mm, 3.0mm
<b>8720</b>	87	Bent 20°	0.120", 0.150", 0.180"	3.0mm, 3.8mm, 4.6mm
<b>8790</b>	87	Bent 72°	0.120", 0.150", 0.180"	3.0mm, 3.8mm, 4.6mm

# Pliers

## MISCELLANEOUS

**145**

### HOSE PINCH-OFF PLIERS



- Pliers eliminate the need to drain cooling system when servicing
- Pliers squeeze hoses shut and jaws swivel for parallel clamping
- Pliers include automatic locking ratchet

**3444**

### LARGE HOSE CLAMP PLIERS



- For use on flat type hose clamps
- Fine tooth locking ratchet
- For heavy-duty jobs

**3975**

### HOSE CLAMP PLIERS



- For Corbin style hose clamps
- Slotted tips rotate to grip at any angle
- Tips rotate to grip at any angle

**3976**

### HOSE CLAMP PLIERS



- For use on flat type hose clamps
- Tips rotate to grip at any angle

**3977**

### ANGLED HOSE CLAMP PLIERS



- For use on flat type hose clamps
- Angle feature provides easy access to clamps located in hard-to-reach areas

## Mechanic Mats and Kneeling Pads

- Will not breakdown under harsh chemicals, including the harsh oils used in the automotive/aircraft industry
- Customer name and logo can be marked on the pads (Minimum required)
- Sold in 5-packs only

**1160**

### FOAM KNEELING PAD-SMALL



- Size: 8-5/8" x 13"

**1167**

### FOAM MECHANICS FLOOR MAT



- Size: 15-1/2" x 38-1/2"; laminated closed cell foam

**1174**

### FOAM KNEELING PAD - MEDIUM (MULTIPLE COLORS)



- 5 large (10" x 19") kneeling pads in the color assortment as follows: (2) red, (1) yellow, (1) green, and (1) blue

# Thread Restorers

## DIES

For quick, on-the-job repairs of damaged threads on bolts and studs. Chase out damaged threads and remove nicks and burrs without undercutting good threads. Rethreading dies are highly tempered for strength and durability, and are 6-pt. shaped for use with socket or wrench. Dies are color-coded for quick visual identification. Use with standard wrench and light oil. Never use to cut new threads or to renew hardened threads.

### 2590

#### 7-PC. SAE COARSE THREAD RESTORER DIE SET



- Sizes: 1/4"-20, 5/16"-18, 3/8"-16, 7/16"-14, 1/2"-13, 9/16"-12, 5/8"-11

### 2592

#### 7-PC. SAE FINE THREAD RESTORER DIE SET



- Sizes: 1/4"-28, 5/16"-24, 3/8"-24, 7/16"-20, 1/2"-20, 9/16"-18, 5/8"-18

### 2594

#### 5-PC. METRIC THREAD RESTORER DIE SET



- Sizes: M6-1.00, M8-1.25, M10-1.50, M12-1.50, M12-1.75

### 2579

#### 8-PIECE FRACTIONAL AND METRIC SPINDLE RETHREADER SET



- Sizes: M20-1.25, M20-1.50, M22-1.00, M22-1.50, M24-1.50, M24-2.00, 3/4"-20, 13/16"-20

### 2577

#### 8-PC. FLOATING AXLE HOUSING THREAD RESTORER KIT



- Sizes: 1-5/8"-16, 1-13/16"-16, 2"-16, 2"-16LH, 2-1/8"-16, 2-1/4"-16, M38-1.50
- Aids in the servicing of front and rear floating axle housings on sport utility vehicles, light and medium duty trucks, and vans
- Contains seven thread restorer dies and one driver socket to refurbish damaged or corroded spindle threads
- The special driver socket enables the technician to easily use individual thread restorers with a standard 1/2" drive ratchet wrench
- Packaged in a plastic blow molded case for protection and easy use

### 2583

#### 7-PC. WHEEL STUD THREAD RESTORER KIT



- Sizes: 7/16"-20, 1/2"-20, 9/16"-18, M12-1.25, M12-1.50, M12-1.75, M14-1.50
- This 7 piece set will repair or renew damaged threads on wheel studs
- Packaged in a plastic blow molded case for protection and easy use

### 2599

#### 20-PC. SPINDLE THREAD RESTORER DIE SET



- Sizes: 11/16"-24, 3/4"-16, 3/4"-20, 13/16"-20, 27/32"-20, 7/8"-14, 1"-14, M16-1.00, M 16-1.50, M18-1.50, M19-1.50, M20-1.00, M20-1.25, M20-1.50, M22-1.00, M22-1.50, M24-1.50, M24-2.00, M25-1.50, M27-2.00
- This set will repair or renew damaged threads on stub axles/spindles on most vehicles
- Packaged in plastic blow molded case for protection and easy use

# Thread Restorers

## TAPS

For repair of damaged internal threads on nuts. Chase out damaged threads and remove nicks and burrs without undercutting good threads. Rethreading taps are highly tempered for strength and durability, and are 6-pt. shaped for use with a socket or wrench. Taps are color-coded for quick visual identification. Use with standard wrench and light oil. Never use to cut new threads or to renew hardened threads. Packaged in a reusable clamshell.

**2585**

### 6-PC. SAE COARSE THREAD RESTORER TAP SET



- Sizes: 1/4"-20, 5/16"-18, 3/8"-16, 7/16"-14, 1/2"-13, 9/16"-12

**2586**

### 6-PC. NF THREAD RESTORER TAP SET



- Sizes: 1/4"-28, 5/16"-24, 3/8"-24, 7/16"-20, 1/2"-20, 9/16"-18

**2588**

### 6-PC. METRIC THREAD RESTORER TAP SET



- Sizes: M6-1.00, M8-1.25, M10-1.50, M12-1.25, M12-1.50, M12-1.75

## FILES

Restores damaged external threads, any diameter, right or left hand. Just select the proper number of threads per inch or millimeters per thread, and overlapping several good threads, work over the area using regular file strokes. Rethreading files are highly tempered for strength and durability. Packaged in a reusable pouch.

**2665**

### THREAD RESTORER FILE 8 PITCHES 11-24 TPI



- Pitches include Threads per inch: 11, 12, 13, 14, 16, 18, 20, 24

**2666**

### THREAD RESTORER FILE 8 PITCHES 9-32 TPI



- Pitches include Threads per inch: 9, 10, 12, 16, 20, 27, 28, 32

**2670**

### METRIC THREAD FILE 8 PITCHES 0.75MM-3.0MM



- Pitches include Millimeters per thread: 0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00

**2573**

### 3-PC. THREAD RESTORER FILE SET



- Pitches include: SAE Rethread Files (Threads per inch): 9, 10, 11, 12, 13, 14, 16, 18, 20, 24, 27, 28 and 30  
Metric Rethread File (Millimeters per thread): 0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00

# Thread Restorers

## KITS

**2581**

### 26-PC. THREAD RESTORER TAP AND DIE SET



- Contains: 7 SAE Coarse Dies  
Sizes: 1/4"-20, 5/16"-18, 3/8"-16,  
7/16"-14, 1/2"-13, 9/16"-12, 5/8"-11
- 7 SAE Fine Dies  
Sizes: 1/4"-28, 5/16"-24, 3/8"-24,  
7/16"-20, 1/2"-20, 9/16"-18, 5/8"-18
- 6 SAE Coarse Taps  
Sizes: 1/4"-20, 5/16"-18, 3/8"-16,  
7/16"-14, 1/2"-13, 9/16"-12
- 6 SAE Fine Taps  
Sizes: 9, 10, 11, 12, 13, 14, 16,  
18, 20, 24, 27, 28, & 32
- Packaged in a high-impact styrene tray  
with clear cover for display and storage

**971**

### 48 PC. SAE AND METRIC THREAD RESTORER KIT



- Contains: 7 SAE Coarse Dies, sizes: 1/4"-20, 5/16"-18, 3/8"-16, 7/16"-14, 1/2"-13, 9/16"-12, 5/8"-11; 7 SAE Fine Dies, sizes: 1/4"-28, 5/16"-24, 3/8"-24, 7/16"-20, 1/2"-20, 9/16"-18, 5/8"-18; 10 Metric Dies, sizes: M6-1.00, M8-1.25, M10-1.00, M10-1.25, M10-1.50, M11-1.50, M12-1.25, M12-1.50, M12-1.75, M14-1.50
- 6 SAE Coarse Taps, sizes: 1/4"-20, 5/16"-18, 3/8"-16, 7/16"-14, 1/2"-13, 9/16"-12; 6 SAE Fine Taps, sizes: 1/4"-28, 5/16"-24, 3/8"-24, 7/16"-20, 1/2"-20, 9/16"-18; 10 Metric Taps, sizes: M6-1.00, M8-1.25, M10-1.00, M10-1.25, M10-1.50, M11-1.50, M12-1.25, M12-1.50, M12-1.75, M14-1.50
- One (1) SAE Rethread File, 8 pitches (threads per inch): 11, 12, 13, 14, 16, 18, 20, 24; One (1) Metric Rethread File, 8 pitches (millimeters per thread): 0.75mm, 1.00mm, 1.25mm, 1.50mm, 2.00mm, 2.50mm, 3.00mm
- Packaged in a plastic blow molded case for protection and easy use

**2584**

### 15-PC. METRIC THREAD RESTORER SET



- Contains: 7 Metric Rethread Dies  
Sizes: M6-1.00, M8-1.25, M10-1.25,  
M10-1.50, M12-1.25, M12-1.50, M12-1.75
- 7 Metric Rethread Taps  
Sizes: M6-1.00, M8-1.25, M10-1.25,  
M10-1.50, M12-1.25, M12-1.50 & M12-1.75
- 1 Metric Restorer File  
8 pitches: 0.75, 1.00, 1.25, 1.50, 1.75,  
2.00, 2.50, 3.00
- Packaged in a high impact styrene tray  
with clear cover for display and storage

**972**

### 40 PC. SAE AND METRIC THREAD RESTORER KIT



- Contains: 7 SAE Coarse Dies, sizes: 1/4"-20, 5/16"-18, 3/8"-16, 7/16"-14, 1/2"-13, 9/16"-12, 5/8"-11; 7 SAE Fine Dies, sizes: 1/4"-28, 5/16"-24, 3/8"-24, 7/16"-20, 1/2"-20, 9/16"-18, 5/8"-18; 6 Metric Dies, sizes: M6-1.00, M8-1.25, M10-1.50, M12-1.25, M12-1.50, M12-1.75
- 6 SAE Coarse Taps, sizes: 1/4"-20, 5/16"-18, 3/8"-16, 7/16"-14, 1/2"-13, 9/16"-12; 6 SAE Fine Taps, sizes: 1/4"-28, 5/16"-24, 3/8"-24, 7/16"-20, 1/2"-20, 9/16"-18; 6 Metric Taps, sizes: M6-1.00, M8-1.25, M10-1.50, M12-1.25, M12-1.50, M12-1.75
- One (1) SAE Rethread File, 8 pitches (threads per inch): 11, 12, 13, 14, 16, 18, 20, 24; One (1) Metric Rethread File, 8 pitches (millimeters per thread): 0.75mm, 1.00mm, 1.25mm, 1.50mm, 2.00mm, 2.50mm, 3.00mm
- Packaged in a plastic blow molded case for protection and easy use

# Thread Restorers

Part No.	Size	801	971	972	2573	2577	2579	2581	2583	2584	2585	2586	2588	2590	2592	2594	2599
50-2600	Tap 1/4"-20NC		•	•				•			•						
50-2601	Tap 5/16"-18NC		•	•				•			•						
50-2602	Tap 3/8"-16NC		•	•				•			•						
50-2603	Tap 7/16"-14NC		•	•				•			•						
50-2604	Tap 1/2"-13NC		•	•				•			•						
50-2605	Tap 9/16"-12NC		•	•				•			•						
50-2610	Tap 1/4"-28NF		•	•				•				•					
50-2611	Tap 5/16"-24NF		•	•				•				•					
50-2612	Tap 3/8"-24NF		•	•				•				•					
50-2613	Tap 7/16"-20NF		•	•				•				•					
50-2614	Tap 1/2"-20NF		•	•				•				•					
50-2615	Tap 9/16"-18NF		•	•				•				•					
50-2618	Tap M14x1.50		•														
50-2619	Tap M10x1.25		•							•							
50-2620	Tap M6x1.00		•	•						•			•				
50-2621	Tap M8x1.25		•	•						•			•				
50-2622	Tap M10x1.50		•	•						•			•				
50-2623	Tap M12x1.50		•	•						•			•				
50-2624	Tap M12x1.75		•	•						•			•				
50-2637	Tap M12x1.25		•	•						•			•				
50-2638	Tap M10x1.00		•														
50-2639	Tap M11x1.50		•														
51-2625	Die 1/4"-20NC		•	•				•						•			
51-2626	Die 5/16"-18NC		•	•				•						•			
51-2627	Die 3/8"-16NC		•	•				•						•			
51-2628	Die 7/16"-14NC		•	•				•						•			
51-2629	Die 1/2"-13NC		•	•				•						•			
51-2630	Die 9/16"-12NC		•	•				•						•			
51-2631	Die 5/8"-11NC		•	•				•						•			
51-2632	Die 3/4"-10NC																
51-2633	Die 7/8"-9NC																
51-2634	Die 1"-8NC																
51-2635	Die 1-1/8"-7NC																
51-2636	Die 1-1/4"-7NC																
51-2640	Die 1/4"-28NF		•	•				•							•		
51-2641	Die 5/16"-24NF		•	•				•							•		
51-2642	Die 3/8"-24NF		•	•				•							•		
51-2643	Die 7/16"-20NF		•	•				•	•						•		
51-2644	Die 1/2"-20NF		•	•				•	•						•		
51-2645	Die 9/16"-18NF		•	•				•	•						•		
51-2646	Die 5/8"-18NF		•	•				•							•		
51-2647	Die 3/4"-16NF																
51-2649	Die 1"-14NF																

# Thread Restorers

Part No.	Size	801	971	972	2573	2577	2579	2581	2583	2584	2585	2586	2588	2590	2592	2594	2599
51-2650	Die 1-1/8"-12NF																
51-2651	Die 1-1/4"-12NF																
52-2655	Die M6x1.00		●	●						●						●	
52-2656	Die M8x1.25		●	●						●						●	
52-2657	Die M10x1.50		●	●						●						●	
52-2658	Die M12x1.50		●	●					●	●						●	
52-2659	Die M12x1.75		●	●					●	●						●	
52-2660	Die M2x1.25		●	●					●	●							
52-2662	Die M10x1.25		●							●							
52-2699	Die M10x1.00		●														
52-2702	Die M11x1.50		●														
52-2703	Die M14x1.50	●	●						●								
54-2671	Die 11/16"-24 Unef-2B																●
54-2673	Die M20x1.25 6H						●										●
54-2674	Die M20x1.25 6H						●										●
54-2675	Die M20x1.25 6H	●					●										●
54-2676	Die 9/16"-18NF						●										●
54-2677	Die 9/16"-18NF						●										●
54-2678	Die M20x1.50 6H	●					●										●
54-2679	Die M22x1.50 6H						●										●
54-2680	Die M24x2.00 6H						●										●
54-2681	Die M25x1.50 6H																●
54-2682	Die M27x2.00 6H																●
54-2688	Die 27/32"-20 Unef-2B																●
54-2689	Die M16x1.00 6H																●
54-2690	Die M16x1.50 6H	●															●
54-2691	Die M18x1.50 6H	●															●
54-2692	Die M19x1.50 6H																●
54-2693	Die M20x1.00 6H																●
54-2696	Die 3/4"-16 UNF-2B	●															●
54-2697	Die 7/8"-14 UNF-2B	●															●
54-2698	Die 1"-14 UNS-2B																●
2665	File 11-24 TPI		●	●	●												
2666	File 9-32 TPI				●												
2670	File 0.75-3.00mm		●	●	●					●							
1043-1	Die 2"x16					●											
1043-2	Die M38x1.50					●											
1043-3	Die 1-5/8"x16					●											
1043-4	Die 1-13/16"x16					●											
1043-5	Die 2"x16 LH					●											
1043-6	Die 2-1/8"x16					●											
1043-7	Die 2-1/4"x16					●											

# Thread Restorers

## RETHREADERS

- Restores and cleans threads of dirt, carbon build up and metal particles
- Rubber o-ring holds chaser firmly in socket

### 1010

#### M10 X M14 SPARK PLUG THREAD CHASER



- Services all major vehicle platforms using 10mm and 14mm spark plugs
- Use with 5/8" hex deep well socket

### 1012

#### M14 X M18 SPARK PLUG THREAD CHASER



- Services all major vehicle platforms using 14mm and 18mm spark plugs
- Use with 13/16" hex deep well socket

### 1013A

#### M12 SPARK PLUG THREAD RESTORER



- Rethreader is used to clean up dirty or damaged spark plug threads on Harley-Davidson® Twin Cam®, V-Rod® and other Sportster® models
- Use with 5/8" hex socket, or 3/8" square ratcheting wrench

### 1016A

#### M18 O2 SENSOR THREAD RESTORER



- Services all major vehicle platforms using 10mm oxygen sensor
- Use with 13/16" socket or 3/8" square ratchet wrench

### 1020A

#### M14 SINGLE END SPARK PLUG CHASER



- Designed with long neck to accommodate extra deep spark plug cavities (i.e. 2.3L Ford and Mercury engines)
- Use with 5/8" hex socket, or 3/8" square ratcheting wrench

## Gauges

### SPARK PLUG GAP

#### 712A

##### RAMP GAUGE LARGE CHROME



- Spark plug tool adjusts spark plug gap in graduated ramp sequence
- Sizes: SAE - .020 - .100; Metric - .60 - 2.40mm

#### 2633A

##### HIGH-ENERGY SPARK GAUGE



- Contains: Six round wires - .040, .044, .045, .050, .060, .080 with double end electrode adjusting tool
- Popular sizes required to gap spark plugs
- Round wire in this gauge permit exact gap checking at all angles

#### 2634A

##### ROUND STYLE WIRE GAUGE



- Contains: Six round wires - .025, .030, .034, .035, .040, .045 with double end electrode adjusting tool
- Most popular "standard ignition" spark plug gapping wire sizes
- Round wire in this gauge permit exact gap checking at all angles

#### 4450A

##### E-Z GRIP SPARK PLUG RAMP GAUGE



- Full range coverage for all spark plug gapping requirements from .020 to .080 (.60 to 2.00mm)
- Applications include those with distributor less ignition systems
- Tool includes a recess specifically designed to adjust electrodes

## FLAT

*The sizes, both decimal and metric equivalent, are permanently etched on each blade except where noted*

### 21A

#### 9-BLADE FEELER GAUGE WITH RULE



- Contains: Nine - 3" x 1/2" blades with thicknesses .002, .003, .004, .006, .008, .012, .013, .020, .025 with steel ruler
- For ignition and general purpose measuring

### 27A

#### 15-BLADE FEELER GAUGE WITH RULE



- Contains: Fifteen - 3" x 1/2" blades with thicknesses .002, .003, .004, .005, .006, .008, .011, .012, .013, .014, .016, .018, .020, .022, .025 with steel ruler

### 28A

#### TUNE-UP GAUGE



- Contains: Nine - 3" x 1/2" blades with thicknesses .002, .003, .004, .006, .008, .012, .013, .020, .025; Five - 1" x 1/4" blades with thicknesses .025, .030, .035, .040, .044 with steel ruler and electrode adjusting tool

### 29A

#### 26-BLADE FEELER GAUGE



- Contains: Twenty-six - 3" x 1/2" blades with thicknesses: .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025

### 36A

#### 32-BLADE FEELER GAUGE



- Contains -Thirty-two - 3" x 1/2" blades with thicknesses .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025, .026, .028, .030, .032, .035 and .010 brass blade for transistorized engines

### 36XK

#### MASTER THICKNESS GAUGE



- Contains: Thirty-one steel and One brass - 3" x 1/2" blades with steel thicknesses .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025, .026, .028, .030, .032, .035; brass thickness .010
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

# Gauges

## FLAT

*The sizes, both decimal and metric equivalent, are permanently etched on each blade except where noted*

### 40A

#### COMBINATION TUNE-UP GAUGE



- Contains: Twelve steel and 6 brass - 3" x 1/2" blades with steel thicknesses .010, .012, .015, .016, .017, .018, .019, .020, .022, .024, .025, .026; brass thicknesses .006, .008, .010, .012, .014, .016
- Two bars with six round wire spark plug gap sizes: .025, .030, .034, .035, .040, .045 with electrode adjusting tool

### 342A

#### 15-BLADE METRIC FEELER GAUGE



- Contains: Fifteen - 3" x 1/2" blades with thicknesses .06mm, .07mm, .08mm, .10mm, .15mm, .20mm, .25mm, .30mm, .35mm, .40mm, .45mm, .50mm, .55mm, .60mm, .70mm
- Metric sizes are permanently etched on each blade

### 343A

#### 25-BLADE METRIC FEELER GAUGE



- Contains: Twenty-five - 3" x 1/2" blades with thicknesses .04mm, .05mm, .06mm, .07mm, .08mm, .09mm, .10mm, .15mm, .20mm, .25mm, .30mm, .35mm, .40mm, .45mm, .50mm, .55mm, .60mm, .65mm, .70mm, .75mm, .80mm, .85mm, .90mm, .95mm, 1.00mm
- Metric sizes are permanently etched on each blade

### 2300A

#### TUNE-UP GAUGE / 6 NON-MAGNETIC BRASS BLADES



- Contains: Six - 3" x 1/2" blades with thicknesses .006, .008, .010, .012, .014, .016
- Non-magnetic brass blades for transistorized systems

### 2636A

#### 17 MINI-BLADE FEELER GAUGE



- Contains: Seventeen - 1-3/4" x 1/4" blades with thicknesses .010, .012, .013, .015, .016, .017, .018, .019, .020, .022, .024, .025, .026, .028, .030, .032, .035

### 3013A

#### 22-BLADE GO-NO-GO GAUGE



- Contains: Twenty-two - 3-5/16" x 1/2" step-ground blades with thicknesses .004-.006, .005-.007, .006-.008, .007-.009, .008-.010, .009-.011, .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .020-.022, .021-.023, .022-.024, .023-.025, .024-.026, .025-.027
- Includes "Step Ground" blades that are ground at the tip .002" less than the normal blade thickness to permit a quick check for proper setting or clearances
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

## FLAT

***The sizes, both decimal and metric equivalent, are permanently etched on each blade except where noted***

### 4046A

#### 26-BLADE FEELER GAUGE



- Contains: Twenty-six - 3" x 1/2" blades with thicknesses: .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

### 12025

#### 25-BLADE FEELER GAUGE 12" LONG



- Contains: Twenty-five - 12" x 1/2" blades with thicknesses: .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .025, .027, .030, .040
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

### 8-9MC

#### 8-BLADE FEELER GAUGE 9" LONG



- Contains: Eight - 9" x 1/2" blades with thicknesses: .002, .003, .004, .005, .006, .008, .010, .015
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

### 8-12MC

#### 8-BLADE FEELER GAUGE 12" LONG



- Contains: Eight - 12" x 1/2" blades with thicknesses: .002, .003, .004, .005, .006, .008, .010, .015
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

### 9-3MC

#### 9-BLADE FEELER GAUGE



- Contains: Nine - 3" x 1/2" blades with thicknesses: .0015, .002, .003, .004, .006, .008, .010, .012, .015
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

### 16-3-5/16MC

#### 15-BLADE FEELER GAUGE WITH RULE



- Contains: Fifteen - 3" x 1/2" blades with thicknesses: .002, .003, .004, .005, .006, .008, .011, .012, .013, .014, .016, .018, .020, .022, .025
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

# Gauges

## FLAT

***The sizes, both decimal and metric equivalent, are permanently etched on each blade except where noted***

### 22-2-5/16MC

#### 22-BLADE FEELER GAUGE 2-5/16" LONG



- Contains: Twenty-two - 2-5/16" x 1/2" blades with thicknesses: .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

### FG-2

#### 25-BLADE FEELER GAUGE



- Contains: Twenty-five - 3" x 1/2" with thicknesses .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .022, .024, .025, .028, .030, .032, .035
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

### FG-30

#### 25-BLADE METRIC FEELER GAUGE



- Contains: Twenty-five - 3" x 1/2" blades with thicknesses .04mm, .05mm, .06mm, .07mm, .08mm, .09mm, .10mm, .15mm, .20mm, .25mm, .30mm, .35mm, .40mm, .45mm, .50mm, .55mm, .60mm, .65mm, .70mm, .75mm, .80mm, .85mm, .90mm, .95mm, 1.00mm
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle
- Metric sizes are permanently etched on each blade

### FG-35-A

#### 35-BLADE FEELER GAUGE



- Contains: Thirty-five - 3-5/16" x 1/2" with thicknesses .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025, .026, .027, .028, .029, .030, .031, .032, .033, .034, .035
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

### FG-135

#### 36-BLADE COMBINATION STANDARD AND BRASS FEELER GAUGE



- Contains: Thirty steel and six brass blades - 3" x 1/2" with steel thicknesses .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025, .026, .028, .030, .032, .035; brass thicknesses .006, .008, .010, .012, .014, .016
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

## OFFSET

***The sizes, both decimal and metric equivalent, are permanently etched on each blade except where noted***

### 39A

#### 12-BLADE OFFSET FEELER GAUGE 4" LONG



- Contains: Twelve - 4" x 1/2" blades with thicknesses .008, .010, .012, .013, .014, .015, .016, .018, .019, .020, .025, .026
- Blades have 1" 45° offset for checking valve clearances

### 316A

#### 16 OFFSET BLADE TAPPET FEELER GAUGE 4" LONG



- Contains: Sixteen - 4" x 1/2" blades with thicknesses .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020
- Blades have 1" 45° offset for checking valve clearances

### 3085

#### OFFSET VALVE TAPPET GAUGE SET - IMPORTS



- Contains: Eleven - 3" x 1/2" blades with thicknesses .004/.102mm, .005/.127mm, .006/.152mm, .007/.178mm, .008/.203mm, .009/.229mm, .010/.254mm, .011/.279mm, .012/.305mm, .013/.330mm, .014/.356mm
- Blades have 30° offset for easy use
- This two handle, eleven feeler blade set is designed for use when setting valve tappets on many import vehicles
- The screw and nut feature allows the user to easily switch blade sizes or to replace damaged blades
- E-Z grip handle for comfort and control

### 3086

#### REPLACEMENT BLADES FOR 3085



- Contains: Eleven - 3" x 1/2" blades with thicknesses .004/.102mm, .005/.127mm, .006/.152mm, .007/.178mm, .008/.203mm, .009/.229mm, .010/.254mm, .011/.279mm, .012/.305mm, .013/.330mm, .014/.356mm
- No need to discard the handle anytime an individual blade becomes damaged, simply replace the blade
- The No. 3086 replacement set contains the same size 30° offset blades as the No. 3085

### 3275A

#### 26-BLADE OFFSET FEELER GAUGE 4" LONG



- Contains: Twenty-six - 4" x 1/2" with thicknesses .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025, .026, .027, .028, .029, .030
- Blades have 1" 45° offset for checking valve clearances
- Equipped with knurled lock-nut, which releases the blades instantly for rapid selection of size desired and when tightened locks the individual blade into the working position, retaining the blades not in use firmly in the handle

# Automotive Specialty Tools

## AXLE NUT SOCKETS

- Axle nut sockets are designed for use with a torque wrench when servicing truck wheel bearing lock nuts
- 3/4" square drive OR 1/2" square drive (\*)
- Full range of six and eight-point sizes
- NOTE: Not to be used with pneumatic power tools. Wear safety goggles



**1294**

### AXLE NUT DISPLAY

Includes: Rack, header board and one each (see chart ●)



**41670**

### 7-PIECE AXLE NUT SOCKET KIT

Seven of the most popular wheel bearing locknut sockets for late-model Ford, Dodge and Toyota trucks. Removes and install hex nuts on trucks

6-Point		6-Point		6-Point	
Part #	Size	Part #	Size	Part #	Size
<b>1201</b>	2-3/32" ●	<b>1218</b>	4-7/8"	<b>1236</b>	2-3/8" Rd. ●
<b>1202</b>	2-3/8" ●	<b>1220</b>	2-1/4"	<b>1238</b>	59mm
<b>1204</b>	2-9/16" ●	<b>1221</b>	2-1/2" ●	<b>1239</b>	5-1/4"
<b>1206</b>	3"	<b>1222</b>	2-5/8" ●	<b>1244</b>	2-1/2" Rd. *
<b>1208</b>	3-1/4" ●	<b>1223</b>	2-3/4" ●	<b>1245</b>	2-3/4" Rd. *
<b>1210</b>	3-1/2" ●	<b>1228</b>	2-9/16" Rd. ●	<b>1251</b>	55mm *
<b>1212</b>	3-7/8"	<b>1229</b>	54mm	<b>1252</b>	60mm
<b>1214</b>	4" ●	<b>1231</b>	3-3/4"	<b>1253</b>	70mm
<b>1215</b>	4-1/8" ●	<b>1232</b>	2-7/8" ●	<b>1254</b>	71mm
<b>1216</b>	4-3/8"	<b>1234</b>	3-1/8"	<b>1255</b>	80mm
8-Point		8-Point		8-Point	
Part #	Size	Part #	Size	Part #	Size
<b>1203</b>	2-3/8"	<b>1225</b>	3-3/4"	<b>1250</b>	4-1/2"
<b>1205</b>	2-9/16"	<b>1226</b>	2-13/16"	<b>1256</b>	82mm
<b>1207</b>	3"	<b>1227</b>	3-13/16"	<b>1257</b>	90mm
<b>1209</b>	3-1/4" ●	<b>1230</b>	3-3/8"	<b>1258</b>	94mm
<b>1211</b>	3-1/2"	<b>1233</b>	2-7/8"	<b>1259</b>	106mm
<b>1213</b>	3-7/8"	<b>1235</b>	3-1/8"	<b>1260</b>	110mm
<b>1217</b>	4-3/8"	<b>1237</b>	2-3/4"	<b>1261</b>	120mm
<b>1219</b>	4-7/8"	<b>1240</b>	4-1/8"	<b>1262</b>	100mm
<b>1224</b>	2-3/4" Rd.	<b>1241</b>	4-13/16"		

### Contents:

#### Part # Product and Description

- |             |  |
|-------------|--|
| <b>1251</b> | <b>55 MM HEX LOCKNUT SOCKET</b><br>For front wheel adjusting nuts found on Toyota FJ, LN and RN models                           |
| <b>1202</b> | <b>2-3/8" HEX LOCKNUT SOCKET</b><br>For 1984-95 Ford Ranger, Bronco II and Explorer with automatic locking hubs                  |
| <b>1221</b> | <b>2-1/2" HEX LOCKNUT SET</b><br>Fits hex nuts found on rear axles and various front axles on light-duty trucks                  |
| <b>1244</b> | <b>2 -1/2" ROUNDED HEX LOCKNUT SOCKET</b><br>For 1995-96 Ford F-150 trucks and full-sized Broncos with automatic locking hubs    |
| <b>1245</b> | <b>2-3/4" ROUNDED HEX LOCKNUT SOCKET</b><br>For 3/4- and 1-Ton Ford F250-350 trucks with automatic locking hubs                  |
| <b>1228</b> | <b>2-9/16" ROUNDED HEX LOCKNUT SOCKET</b><br>For 1990-93 Dodge trucks with Dana 60 manual hubs                                   |
| <b>1236</b> | <b>2-3/8" ROUNDED HEX LOCKNUT SOCKET</b><br>For 1990 and newer Ford Rangers, Bronco II and Explorers with automatic locking hubs |

# Automotive Specialty Tools

## AXLE NUT SOCKETS

**2467**

### 4-LUG 4WD SPINDLE NUT SOCKET 1/2- TO 3/4-TON DANA 44



Remove and install 4-slot axle lock nuts on Ford Ranger, Bronco II, Explorer, F-Series, and full-size Bronco; GM 1/2-ton trucks and full-size Blazer/Jimmy; International 1/2-ton trucks; Dodge 1/2-ton trucks and Dodge with Dana 44

**2770**

### 6-LUG 4WD SPINDLE NUT SOCKET 3/4-TO 1-TON DANA 44



Remove and install 4-slot front axle lock nuts on Ford F-Series 4WD trucks; Ranger, Bronco, GM 4WD 3/4- and 1-Ton trucks; Dodge trucks with Dana 44

**3195**

### 4-LUG WITH EXTENSION 1/2-TON DANA 80



For high-shear rotating nuts on F250-350 with Dana 80 rear axle 10-1/4" ring gear; E350 with Dana 80 rear axle and 10-1/4" ring gear; F super-duty with Dana 80 rear axle and 10-1/4" ring gear

**3246**

### 4WD SPINDLE NUT WRENCH



For use on GM 3/4- and 1-Ton trucks; Ford F-Series 1/2-ton trucks with Dana 28, F250 and F350 4WD trucks

**3910**

### 4WD SPINDLE PULLER



Removes front spindle to access needle bearing when lubricating and aligning front wheels. 5/8"-18 fine thread permits use with slide hammer. Fits spindle thread sizes 2"- 16, 1-5/8"-16, and 38mm-1.5 Applications: Full-size GM, Ford, Jeep and International pickups with Dana front axles, plus Ranger and Bronco II

**3911**

### TOYOTA LOCK NUT TOOL



Servises high-torque lock nuts on Toyota 4WD vehicles having free-wheel (lock-out) hubs; Tacoma; T100 and 4-Runner

**3937**

### 4-LUG 4WD SPINDLE NUT SOCKET 1/2-TON DANA 50



Remove and install 4-slot front axle nuts on Ford F250-350, Bronco with Dana Axle, or Dana 50IFS or model 60 monobeam axle outer adjusting nut; GM Heavy-duty 3/4- and 1-Ton trucks

**41660**

### 6 PIECE SPINDLE NUT KIT



The 6 steel 1/2" drive sockets: 2467, 2770, 3195, 3910, 3911 and 3937 are for most 4 wheel drive SUV and light truck axle lock nut applications



**41650**

### 7-PIECE AXLE NUT KIT

These 7 extra long 1/2" drive 6 point metric sockets are ideal for heavy-duty use in removing and installing axle nuts

Contents:	
Part Number	Product and Description
<b>3161</b>	<b>30MM AXLE NUT SOCKET</b> Services GM body styles A, J, & N, plus Asian imports
<b>3162</b>	<b>36MM AXLE NUT SOCKET</b> Services many GM, Ford and Chrysler full-size vehicles
<b>3270</b>	<b>32MM AXLE NUT SOCKET</b> Services late model Honda and Chrysler vehicles
<b>3449</b>	<b>34MM AXLE NUT SOCKET</b> Services many GM mid-size vehicles
<b>3907</b>	<b>29MM AXLE NUT SOCKET</b> Services late model GM, Ford and Asian imports
<b>3908</b>	<b>35MM AXLE NUT SOCKET</b> Services many GM vehicles.
<b>3909</b>	<b>38MM AXLE NUT SOCKET</b> Services various full-size vehicles including SUVs



# Automotive Specialty Tools

## AIR CHUCKS

- These air chucks are combined with our E-Z Grip handles to provide a comfort grip when using the air chuck
- Durable, heavy duty handle stands up to tough shop abuse
- 1/4" NPT pipe threaded end will accept an air line quick-disconnect fitting

**780**

### E-Z GRIP DUAL HEAD AIR CHUCK



- Designed for use on trucks, dual rear wheels, semis, and hard-to-reach wheels

**782**

### E-Z GRIP DUAL HEAD STRAIGHT AIR CHUCK TOOL



- Straight On Dual Head Tool permits access to hard to reach inner tandem wheels and includes the new tilt-lock feature which locks onto the valve reducing user fatigue

**785**

### STANDARD AND LARGE BORE AIR CHUCK



- For inflating tires on large trucks and earth moving equipment with large bore valves

**915**

### E-Z GRIP AIR CHUCK TOOL - PASSENGER VEHICLES



- Sealed ball air chuck is extended 1" from handle to allow access to tight areas

## BATTERY CARRIERS

**B-600**

### HEAVY DUTY BATTERY CARRIER



- For use on all batteries with horizontal ridges; Non-slip, acid resistant, riveted rubber grip pads secure a firm hold on any battery up to 7-1/2" wide
- Zinc-plated steel construction

**B-610**

### BATTERY CARRIER - STRAP STYLE



- Accommodates battery size from 3-1/2" to 7-3/4"
- Jaws made from zinc-plated carbon steel
- Reinforced conveyor strapping handle

## BATTERY TERMINAL

**202**

### BATTERY TERMINAL PULLER



- Easily remove battery terminal cables, preventing damage to battery posts
- Jaws fit under cable terminal and center screw pushes down on post to pull terminal up
- Durable jaws open 1/4" to 1-1/8" to fit most battery terminals

**297**

### BATTERY NUT PLIERS



- Use to easily loosen and tighten nuts on battery terminal clamps
- Handles are offset for working in confined areas
- Jaws are serrated for a firm grip

**298**

### BATTERY TERMINAL SPREADER AND CLEANER



- Use to clean corrosion from the cable clamp
- Sharp teeth effectively clean corrosion from the cable clamp

**299**

### BATTERY BRUSH



- Use this durable steel brush to remove corrosion and dirt from battery terminals and cable clamps
- External brush cleans cable clamps and internal brush cleans terminal posts
- Rugged steel case has long life

# Automotive Specialty Tools

## BATTERY TERMINAL

### B-10A

#### 5/16" RATCHETING SIDE TERMINAL BATTERY WRENCH



- Designed to remove/install 5/16" battery terminals
- Insulated handle helps prevent electrical shock
- Reversible ratcheting box wrench allows for quick and effective bolt removal

### 6525

#### EXTRA LONG 5/16" RATCHETING SIDE TERMINAL BATTERY WRENCH



- Designed to remove/install 5/16" battery terminals
- Insulated handle helps prevent electrical shock
- Reversible ratcheting box wrench allows for quick and effective bolt removal
- Extra length (9-3/4") allows for easy access to recessed terminals

### 6571

#### 5/16" X 10MM EXTRA LONG BATTERY TERMINAL WRENCH



- Used to remove/install 5/16" or 10mm battery terminals and hold-down fasteners
- Socket allows for maximum hold on 10mm terminals and still allows room to access most 5/16" side terminals
- Extra length (9-3/4") allows for easy access to recessed terminals

### 6572

#### 10MM BATTERY TERMINAL WRENCH



- Used to remove/install 10mm battery terminals and hold-down fasteners
- Short handle allows for increased functionality in restricted work areas
- Vinyl grip insulates and helps prevent arcing
- 10mm socket allows for maximum hold

## COMPUTER MEMORY SAVERS

### 294A

#### COMPUTER MEMORY SAVER W/ 12 VOLT ADAPTER



- Plugs into standard 120 VAC outlet

- Designed to maintain the memory of the on-board vehicle computer (CCU) when battery is disconnected
- Prevents loss of certain drivability codes, keyless entry codes, digital radio settings, cellular phone settings and other memory related functions
- Prevents loss of radio function on anti-theft radio systems

### 295A

#### COMPUTER MEMORY SAVER 9 VOLT



- Use with 9V alkaline battery (not included)

## BRAKES/WHEELS

### 541A

#### TUBE BENDER 1/4" O.D.



- Bends tubing up to 1/4" OD (outer diameter) to 360° without kinks
- For copper, brass, brake lines and Bundy weld tubing
- Zinc die-cast for durability

### 279

#### BRAKE CALIPER PRESS



- Four tools in one
- Works on various single, dual & quad piston calipers
- Centrally distributes force
- Compact design
- 360° ratchet swing allows access at any angle

### 380A

#### BRAKE RESETTING GAUGE



- Wide working range allows measurements from 6-1/2" to 13-1/4" in diameter
- Services foreign and domestic cars and light trucks with drum brakes
- Locks the measurement at the appropriate inch or metric calibration during use
- Heat-treated, chrome-plated steel jaws ensure long tool life

# Automotive Specialty Tools

## BRAKES/WHEELS

**833**

### BRAKE DRUM AND ROTOR PULLER



- Saves time and reduces damage to the wheel bearing by eliminating the need to repeatedly strike or heat the brake drum to free it from the hub
- Adjustable with a 17" spread and 6" reach to accommodate the most common drum sizes
- Includes specially designed jaws to maximize surface contact ensuring uniform grip even on deteriorated drums

**5459**

### BRAKE CALIPER BIT SET



- Used for removing/installing fasteners on automotive brake calipers
- Tool set consists of 5/16" magnetic bit holder with a 3/8" square drive; 1/4", 3/8", 7mm, 8mm and 10mm Hex Bits; T40, T45, T50 and T55 TORX® Bits; 6mm Triple Square Bit

**BBM-810A**

### BRAKE BLEEDER WRENCH 8MM X 10MM



- For bleeding brakes on late model cars with 8mm and 10mm six-point fittings
- 8mm end designed to fit recessed fittings on many FWD vehicles

**401**

### RAPID DEFLATORS WITH TPMS LOCATION MARKS



- Sockets are clearly marked with LF (left front), RF (right front), LR (left rear) & RR (right rear) for easy identification so tires can be returned to original position without TPMS needing to be reset
- Orange anodized aluminum with permanent markings for easy identification
- Cutout allows for quick evacuation of air without removing valve core
- Socket also holds valve caps for easy storage
- Knurling creates sure grip even in greasy situations

**755**

### 6 PC. WHEEL STUD INSTALLER KIT FOR LIGHT TRUCKS AND SUVS



- Kit includes installer sizes: 1/2"-20; 9/16"-18; 12mm-1.75; 14mm-1.50
- Will install wheel studs on major vehicle platforms, domestic and foreign, including light trucks and SUVs
- Assures correct installation of wheel studs
- No more ruined studs or lug nuts
- Also includes spacer and washer

**938**

### 6 PC. WHEEL STUD INSTALLER KIT FOR AUTOMOBILES



- Includes installer sizes: 7/16"-20; 1/2"-20; 12mm-1.25; 12mm-1.50
- Assures correct installation of wheel studs
- No more ruined studs or lug nuts
- Also includes spacer and washer

**1410**

### TIRE VALVE INSTALLER



- Simplify inserting any tubeless tire valve
- Swivel head screws onto cap thread of tire valve
- Handle is used as a lever to pull tire valve into rim hole

# Automotive Specialty Tools

## GENERAL PURPOSE

**520**

### 9 PC. MAGNETIC SOCKET INSERTS (SAE)



- Includes nine pieces: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", and 7/8"

- Magnetic insert firmly holds the fastener in the socket for easy installation/removal
- Prevents fasteners from dropping into restricted areas where they can be difficult to locate and/or retrieve
- Magnetic insert can be left in or removed for use in other sockets

**521**

### 10 PC. MAGNETIC SOCKET INSERTS (METRIC)



- Includes ten pieces: 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19mm

**522**

### 19 PC. MAGNETIC SOCKET INSERTS (SAE & METRIC)



- Includes nineteen pieces: SAE and Metric sets combined

**950**

### 11 PC. GASKET HOLE PUNCH SET



- Designed to cut holes and internal radii in gaskets and other soft material (i.e., rubber, lead foil, linoleum, felt fiber)
- Contains long driving mandrel
- Ten punch sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1"

**3509**

### STEEL WHEEL LOCK-PLATE REMOVER/INSTALLER



- Features puller yoke to fit late model GM cars with (S.I.R.) air bags
- Narrow yoke prevents damage to the lock plate
- Hex screw supplied will lock down telescoping steering columns while removing lock plate
- Zinc and black oxide for corrosion resistance

## MISCELLANEOUS

**436A**

### EXHAUST HANGER REMOVAL PLIERS



- For removal of rubber exhaust system hangers, (i.e. tailpipe, exhaust pipe and muffler)
- Self-locating forcing pin
- Cushioned slip-resistant handles at a 25° offset for easy access in restricted areas

**475A**

### CLUTCH MASTER CYLINDER PIN PRESS



- Service the clutch master cylinder and hydraulic lines without having to remove the whole clutch master cylinder assembly
- Used to press out the roll pin that retains the hydraulic line to the clutch master cylinder or the clutch slave cylinder on domestic vehicles with manual transmissions
- Spring return handles

**525**

### TILT STEERING PIVOT PIN REMOVER



- Removes pivot pins from Chrysler, Ford, and GM steering columns
- Each of the tool's three pieces are machined out of a separate solid piece of material, and heat-treated for added strength, durability, and long tool life
- Fits all telescoping steering columns (1969 to present)

# Automotive Specialty Tools

## MISCELLANEOUS

### 635A

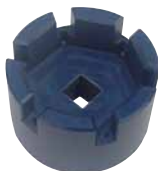
#### UNIVERSAL OIL FILTER WRENCH



- Designed to fit oil filters for all domestic and foreign compact, mid- and standard-sized automobiles
- Self-adjusting wrench will fit all filters 2-1/2" through 3-13/16" in diameter
- Works with a 3/8" square drive socket wrench

### 538

#### FORD FUEL FILTER CAP TOOL



- Works on Ford 36mm cartridge style oil filters and fuel filters which use 36mm & web cartridges; Ford F250 thru F550 Trucks, E250 thru E350 Econoline Vans, Excursion and Super Duty; 1998-present for 7.3L Powerstroke Diesel and oil filter caps for 2003-2007 Ford 6.0L Powerstroke Diesel, 2008-Present Ford 6.4L Turbo Diesel; some International/Navistar Trucks & VW's
- 36mm hex, combined with 6 notches allows this tool to do the work of two
- Blue anodized aluminum
- 3/8" drive

### 1015A

#### OXYGEN SENSOR/VAC SWITCH SOCKET



- Multi-purpose socket used for removal and replacement of oxygen sensors, vacuum switches and PVS, TVS valve sockets as found on Ford, General Motors, Chrysler, and some foreign vehicles
- Use with 3/8" square drive or 7/8" wrench
- 125 ft./lbs. torque

## PULLEY

### 5238

#### MASTER POWER STEERING PULLEY REMOVER AND INSTALLER SET



- Designed to remove and install press-on-type belt-driven accessory pulleys found on most major domestic vehicle platforms
- Includes components necessary to use on pumps with the common 3/8"-16 threaded shaft
- Applications include: GM Quad 4, GM 3.1L, and Ford 4.6L engines

### 5239A (CLAMSHELL)

### 5239B (CASE)

#### POWER STEERING PUMP/ALTERNATOR PULLEY REMOVER/INSTALLER



- For removing and installing power steering pump pulleys on most major domestic vehicle platforms including early GM, Chrysler and Ford
- Use on pulleys with grooved hub diameters of 1-1/8", 1-1/4", 1-5/16" and 1-3/8"
- Also, removes/install GM belt-driven vacuum pumps and pressed-on water pump pulleys on GM 4 and 6 cylinders

## SERRATED BIT WRENCHES

- Use to install and remove 12-point (triple-square) metric socket-head screws
- Turn with a socket or wrench

### 676-6



- 6MM, Hex size is 5/16"

### 676-8



- 8MM, Hex size is 5/16"

### 676-10



- 10MM, Hex size is 1/2"

### 676-12



- 12MM, Hex size is 1/2"

# Automotive Specialty Tools

## SERVICE

- Compress valve springs on overhead valve and L-head engines on cars, trucks and tractors
- Variable sizes, jaw openings and throat depths for use on multiple engine models

**379**

### SMALL ENGINE VALVE SPRING COMPRESSOR



- Long and slender, maximum opening 2-3/8"
- Will reach into small recesses where valve springs and retaining washers are located
- Jaws are adjustable in width and have edges so thin they can be forced under and over ends of valve spring to compress it for removal

**380**

### VALVE SPRING COMPRESSOR



- Jaws and plunger bars are easily adjusted
- Plunger bar seats on both flat and cup-shaped valve heads
- 9-3/4" Throat depth, and jaw openings of 2-3/4" to 7-3/4", 2 straight jaws included

**383A**

### VALVE SPRING COMPRESSOR



- A handle on the outside of the tool makes it easy to use
- 7-1/2" Throat depth, and jaw openings of 2-3/4" to 5-7/8"

**385**

### VALVE SPRING COMPRESSOR



- Designed for light-weight valve springs
- 6-1/4" Throat depth, and jaw openings of 3" to 5-3/8"

**277A**

### PISTON RING COMPRESSOR



- Double tension band with gear ratchet
- Stronger locking mechanism and quick release
- For use with major vehicle platforms, domestic and foreign
- Ring capacity 2-1/8" to 5"; depth 3-1/2"

**1722**

### PISTON RING GROOVE CLEANER



- Effectively removes carbon from ring grooves on pistons 2" to 5" (51mm to 127mm)
- The two 6-bladed cutters cover all major piston ring grooves in SAE and metric sizes
- Cutters rotate to any selected size, locking in place with hold-down nut

## SPARK PLUG

**135**

### SPARK PLUG TERMINAL PLIERS



- Safely remove spark plug cables and prevent cable damage
- Pliers' handles and jaws are coated with heavy-duty plastic for a sure grip

**528 (5/8" DIA., 3/8"DRIVE)  
529 (13/16"DIA., 3/8"DRIVE)**

### MAGNETIC SPARK PLUG SOCKET



- Magnet firmly holds the spark plug for easy installation and removal avoiding the chance of dropping and damaging the spark plug
- Unique design prevents damage to the spark plug's ceramic top
- Unlike sockets with rubber inserts, the permanent magnet in this socket will not wear out or be damaged by exposure to oil or humidity

**4663**

### SPARK PLUG EXTRACTOR TOOL



- Removes broken spark plugs from the cylinder head on Ford Triton® 4.6L, 5.4L, and 6.8L 3-valve engines without removing the head
- Applications:
  - Ford Triton® 4.6L V8 3-valve engine
  - Ford Triton® 6.8L V10 3-valve engine
  - Ford Triton® 5.4L V8 3-valve engine used on 2004-2010 Ford F150
  - F250 and F350 F-Series pick-ups, 2004-2010 Ford Super Duty pick-ups, 2004-2010 Ford Expedition and 2004-2010 Lincoln Navigator

**4647**

### HARNESS CONNECTOR RELEASE TOOLS



- For disconnecting electrical connectors
- Specially designed, heat-treated blades with E-Z Grip handles
- Set includes one tool designed for pulling connectors off, and the other for pushing connectors off
- Easy connector removal, regardless of component location

# Automotive Specialty Tools

## WRENCHES

**615**

### **TIE ROD WRENCH**



- For adjusting tie rods on vehicles with rack and pinion steering
- Spring-loaded upper jaw pivots to accommodate tie rods ranging in size from 10mm-18mm
- Wrench is self adjusting
- Works on 2-flat, spline and hex
- Cam action increases the gripping pressure as the load applied to the handle increases
- Heat-treated for durability

**FM-720A**

### **FORD IGNITION MODULE WRENCH**



- 25° offset ratcheting dual-end wrench containing a 7/32" six-point (5.5mm), and T-20 TORX® bit
- For easy removal of Ford ignition module without removing or tampering with the distributor

**1418**

### **DRAIN PLUG WRENCH**



- For drain plugs on differentials, transmissions (auto/manual), transfer cases, and engines
- Designed to fit the two most common female drain plug sizes: 3/8" and 1/2" square
- Add a socket to the wrench for use on male six-point drain plugs
- Can also be used on serpentine belt tensioners (with respective drive sizes)

**5523**

### **4MM FORD HEADLIGHT ADJUSTING RATCHETING WRENCH**



- For use on late model Fords with aerodynamic designs and headlights with rear mounted adjusters
- 8" length, slim tool profile

**5524**

### **5MM GM HEADLIGHT ADJUSTING RATCHETING WRENCH**



- Adjusts headlights on 1994 and 1995 GM "N" body vehicles
- 8" length, slim tool profile

**5529A**

### **FORD HEADLIGHT ADJUSTING RATCHETING WRENCH**



- 4mm x 4.5mm wrench for adjusting headlights on late model Fords with aerodynamic designs and headlights with rear mounted adjusters
- 8" length, slim tool profile

**5541**

### **GM MULTIFUNCTIONAL SWITCH TOOL**



- Conveniently remove/install the multifunction switch on GM vehicles - significantly reduces time
- Tool consists of a low profile 1/4" bit wrench with a T25 BALLTORX® bit that allows better control and access in restricted areas
- Allows the multifunction switch to be removed and installed without removing the air bag, steering wheel, and clock spring

**6532**

### **CADILLAC SOCKET HEAD DRAIN PLUG WRENCH**



- Single-end, extended 5/16" magnetic bit wrench to accommodate a T-45 TORX® bit (included)
- Low profile design allows access to drain plug where a standard ratcheting wrench or TORX® driver will not
- For use on 2003-04 Cadillac 3.2L CTS, and 1997-2001 Cadillac 3.0L Catera

# Motorcycle Specialty

## MISCELLANEOUS

**408A**

### VALVE STEM FISHING TOOL



- Used to pull valve stems and valve stem/inner tube assemblies through the valve stem hole on vehicle rims
- Tool has three functions: valve stem puller, valve core removal, and tire deflator
- Unlike existing tools on the market, this valve stem puller threads into the valve stem rather than over-the-valve stem, eliminating the need to put hands inside the rim/tire assembly

**444**

### SPRINGER FORK BEARING ADJUSTING TOOL



- Adjust the steering stem adjuster nut to allow for proper neck bearing endplay
- Three-prong socket, 3/8" drive, with a pass through hole in the center allows for precise neck endplay adjustment
- Used on Harley-Davidson® motorcycle Springer® forks
- Heat-treated and black oxide plated for durability

**447**

### WHEEL BEARING PLUGS



- Two identical, non-corrosive, polymer plugs with a diamond-knurled surface for grip
- Used to plug the wheel bearing seals on Harley-Davidson® motorcycles to prevent moisture from entering the bearings while the rim is being cleaned
- Applications: Harley-Davidson® front and rear wheels with tapered bearings
- Precision diameter allows tool to seal bearing

**437**

### CRANKSHAFT BEARING END PLAY SETUP TOOL



- Used on Big Twin® engines to set up crankshaft bearing endplay
- Allows inner bearing races to be installed and removed without pressing them on or off as you would if you were using a crankshaft
- Allows for much faster servicing

**445**

### REAR ISOLATOR REPLACEMENT TOOL



- Offset ratcheting wrench with extended handle
- A threaded bolt is used to jack apart the frame and the swing arm; assembly is kept from turning by a handle staked to the wheel
- Built-in feature keeps motorcycle frame from being overspread
- Applications include: S1 Lightning®, S1 Cyclone®, S2 Thunderbolt®, S2T Thunderbolt®, and S3T Thunderbolt®

**449**

### NECK BEARING ADJUSTMENT TOOLS FOR HARLEY-DAVIDSON® MOTORCYCLES



- The neck bearing adjustment is usually checked at the following service intervals: 1,000 miles, 5,000 miles, 15,000 miles, 25,000 miles or annually. If adjustment is necessary, the 449 is designed perfect to fit the application
- Tapered end allows easy access to the neck bearing adjusting star on Harley-Davidson® front ends
- Screwdriver-style handle offers a comfortable grip

**440**

### SHOCK ABSORBER FORK OIL REPLENISHMENT KIT



- Clear plastic tube and special fitting allows replacement of the oil in the fork through the drain plug
- No need to disassemble the fork and front end

**446**

### CYLINDER SLEEVE HOLD DOWNS



- Specialty nuts (four per package) used to hold down cylinder sleeves during service procedures
- Motor can be turned over with the heads off
- Applications: Harley-Davidson® Big Twin®, Twin Cam®, Sportster® and models with 3/8" studs
- Nuts are for a 3/8"- 16 UNC thread
- 3/4" hexagon (easy handling)

# Motorcycle Specialty

## MISCELLANEOUS

**485**

### CAMSHAFT GEAR ALIGNMENT TOOL



- For "degreeting" a camshaft to stock specifications
- Applications include: Evolution® Big Twin®
- Locks the radial position of the gear and the camshaft together
- Allows the gear to be easily and accurately pressed onto the camshaft, reducing installation time

**492**

### LOCK RING TOOL



- Allows access to the fuel filter and pump as the lock ring is connected to the pump
- Made of durable ABS plastic
- Competitive products are metal and can scratch the painted surface of the motorcycle

**514**

### SEAT SCREWDRIVER FOR SOFTTAIL®



- Seat screwdriver for Harley-Davidson® SoftTail®

**702**

### ROCKER BOX COVER WRENCH REPLACEMENT BITS



- Three 3/16" Allen bits packaged in a polybag

**801**

### 7-PC. ATV AXLE END THREAD RESTORER KIT



- Contains 7 different dies to restore threads on axle ends of ATVs such as Honda, Kawasaki, Suzuki, Yamaha and more
- Die sizes included: M14-1.50, M16-1.50, M18-1.50, M20-1.50, M24-1.50, 3/4"-16, and 7/8"-14

**1201A**

### LOW PRESSURE TIRE GAUGE



- Reads 1 - 20 PSI, 1/2 lb. increments
- Metal body/plastic gauge, pocket clip, deflator feature
- For ATVs, lawn tractors and motorcycles

**5530**

### INTAKE MANIFOLD WRENCH



- Reversible ratcheting box wrench used on BigTwin® engines to install/remove intake manifold socket head cap screws
- 1/4" ball-end Allen bit

**6529**

### ROCKER BOX COVER RATCHETING BOLT WRENCH



- Reversible ratcheting box wrench used on all Harley-Davidson® Evolution® motor rocker box covers
- Low profile allows clearance between the frame and engine
- Long handle for increased reach
- Ergonomic rubber grip will not scratch chrome
- 9-3/4" long chrome plated with 1/4" drive

**1610**

### 14-BLADE VALVE LASH GAUGE SET



- 14-pc. set of 4" x 1/4" feeler gauge blades, thickness .002" through .015"
- 1/4" wide gauge blades can be used to check valve clearances of small diameter bucket and shim type valve trains
- Standard 1/2" wide blades may contact the cylinder head and not provide the proper clearance "feel"
- 4" length allows for extra reach to recessed valve systems

# Motorcycle Specialty

## WRENCHES

**6530**

### LOWER ROCKER BOX 7/16" WRENCH FOR TWIN CAM®



- Extra long reversible ratcheting box wrench used to install/remove the lower rocker box on Harley-Davidson® motorcycles with Twin Cam® engines (1999–2006)
- Vinyl grip prevents the wrench from scratching or marring the bike
- 7/16" protruding socket, 1" socket length

**6531**

### LOWER ROCKER BOX 7/16" WRENCH FOR EVOLUTION®



- Extra long reversible ratcheting box wrench used to install/remove the lower rocker box on Harley-Davidson® motorcycles with Evolution® engines (1994–1999)
- Vinyl grip prevents the wrench from scratching or marring the bike
- 7/16" protruding socket, 1-1/4" socket length

**6538**

### EXHAUST BRACKET WRENCH



- Reversible ratcheting wrench used to remove/install the front exhaust bracket on Harley-Davidson® Dyna® model Twin Cams® from 1999 to present
- 9-3/4" long with a removable/replaceable shortened T-27 TORX® bit
- Vinyl grip prevents the wrench from scratching or marring the bike
- Low profile design

**6562**

### REAR FENDER BOLT WRENCH



- Extra long rocker box wrench used to remove/replace the bolt that holds the rear fender to the frame on Harley-Davidson® Touring® models, 1988 to present
- Remove the rear fender bolt without having to remove the tire
- Overall length = 13 inches
- T40 Bit

**6738**

### MAGNETIC SPEEDOMETER SENDING UNIT WRENCH



- Extra long reversible offset ratcheting wrench used to remove/install magnetic speedometer sending units for Harley-Davidson® Sportster® motorcycles and other Harley-Davidson® applications with magnetic speedometer sending units
- Magnetic 1/4" drive
- Shortened 3/16" ball-end hex bit allows access to remove/install sending units without further disassembly
- Vinyl grip prevents the wrench from scratching or marring the bike

**7552**

### CENTER STAND WRENCH



- Used to install or remove the center stand on full size Harley-Davidson® motorcycles
- Thin wall on working end allows the wrench to fit into the frame recess to access the mounting fasteners
- Heat-treated and chrome-plated
- 12-point, 1/2" drive

**8577**

### 17MM X 19MM FRONT AXLE WRENCH



- Reversible ratcheting wrench used to remove/install the front axle shaft on motorcycles equipped with a female six-point socket in the end of the axle
- Used on various late models of Honda, Kawasaki, Suzuki and Yamaha
- Vinyl grip prevents the wrench from scratching or marring the bike

**8598**

### 22MM X 24MM FRONT AXLE WRENCH



- Reversible ratcheting wrench used to remove/install the front axle shaft on motorcycles equipped with a female six-point socket in the end of the axle
- Used on various late models of Honda, Kawasaki, Suzuki and Yamaha
- Vinyl grip prevents the wrench from scratching or marring the bike

# Motorcycle Specialty

## WRENCHES

**8799**

### 17MM ENGINE OIL DRAIN PLUG WRENCH



- Reversible offset ratcheting wrench used to remove/install the engine oil drain plug on Metric V-Twin® motorcycles: Honda Shadows®, Yamaha V-Stars®, Kawasaki® Vulcan® and other metric motorcycles with 17mm engine and rear differential drain plug

- 17mm extended wheel, low profile head

**9270**

### 6-TOOTH CRANKSHAFT WRENCH



- Reversible ratcheting wrench used for rotation of the crankshaft on all 6-spline engines (2007 Harley-Davidson® Sportsters® and 2008 Buell®)

- Extended wheel/socket to prevent wrench from sliding to far onto the crankshaft
- E-Z Grip handle allows more turning power with less fatigue to the hand

**9280**

### 24-TOOTH CRANKSHAFT WRENCH



- Used for rotation of the crankshaft on all 24-spline engines (2006 Harley-Davidson® Dyna®), and to check engine timing and parts clearance

- Custom design fits perfectly on the crankshafts of 2006 Dyna® model

- Ergonomic E-Z Grip handle allows more turning power with less fatigue to the hand

**9636**

### REAR AXLE 36MM NUT RATCHET WRENCH



- Reversible ratcheting wrench used to install/remove 36mm axle nuts

- For use on FL Touring® models with 36mm axle nuts

- Insert a torque wrench into the built-in 1/2" square drive to get a torque reading

**9723**

### OIL PRESSURE INDICATOR LAMP SENDING UNIT WRENCH



- Reversible ratcheting wrenches used to remove/install the oil pressure indicator lamp sending unit on Harley-Davidson® FL Touring® motorcycles (1999 and up)

- Special low profile
- Vinyl grip prevents the wrench from scratching or marring the bike

**9724**

### OIL PRESSURE INDICATOR GAUGE SENDING UNIT WRENCH



- Special low profile reversible ratcheting wrench used to remove/install the oil pressure indicator gauge sending unit on Harley-Davidson® FL Touring® motorcycles (1999 and up)

- Vinyl grip prevents the wrench from scratching or marring the bike

**9725**

### TRANSMISSION NEUTRAL LIGHT WRENCH



- Reversible ratcheting wrench with special extended 7/8" low profile head used to remove/install the transmission neutral light switch on Harley-Davidson® TwinCam® motorcycles except Sportster® and Soft Tail®

- Vinyl grip prevents the wrench from scratching or marring the bike

**9793**

### SIX SPLINE RATCHETING OUTPUT WRENCH



- Reversible offset ratcheting, chrome-plated, EZ Grip wrench contains a 1" drive to service a six spline crankshaft

- Used for rotation of the crankshaft/check engine timing and parts clearance on Sportster® motorcycles

**9794**

### TEN SPLINE RATCHETING OUTPUT WRENCH



- Reversible offset ratcheting, chrome-plated, EZ Grip wrench contains a 1-1/8" drive to service a ten spline crankshaft

- Used for rotation of the crankshaft/check engine timing and parts clearance on Sportster® motorcycles

## MISCELLANEOUS

**3350**

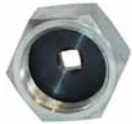
### INJECTOR HEIGHT GAUGE FOR DETROIT DIESEL ENGINES



Size	Series Engine		Year
78.2mm	60	DDEC I	1986-1993
78.2mm	60 & 50	DDEC II	1896-1993
78.8mm	60 & 50	DDEC III	1994-1997
80.3mm	60	DDEC III	Late 1997
80.3mm	60 & 50	DDEC IV	1997-1998
81.0mm	60 & 50	DDEC IV	1998-1999
81.0mm	60	Marine	2000-2003
82.1mm	60		See service manual

**486**

### OIL FILTER NIPPLE INSTALLER SERIES 60 DETROIT DIESEL ENGINES



- Used to reinstall or tighten the oil filter nipple into the oil filter housing
- 2" six-point hex nut with a 3/8" drive plate
- Can be used with a ratchet or torque wrench

**5223**

### 4MM HEX KEY BIT WRENCH SET



- Used to connect and disconnect the wiring harness connection terminal to the ECM on CUMMINS engines
- Consists of a fine tooth bit wrench combined with a special 2-1/4" length, 4mm six-point key (1/4" six-point drive)
- Fits the wiring harness connection terminals on CUMMINS ISM, ISL, ISC and ISB engines
- Most advantageous on the market for working on EGR equipped ISX engines

**655**

### 4MM HEX KEY



- Special 2-1/4" length 4mm six-point key (1/4" six-point drive)
- Fits the wiring harness connection terminals on CUMMINS ISM, ISL, ISC and ISB engines

**679**

### T-45 TORX® BIT - 7" LONG



- Used to remove/install the intake manifold on CUMMINS N14 engines without having to remove the fuel pump, air compressor, etc

**706**

### FAN CLUTCH TOOL



- For use on International VT365, T444E, DT466, and DT530; FORD POWER STROKE 7.3L and 6.0L; DETROIT DIESEL Series 40; and John Deere
- Firmly affixes to the fanhub with bolts
- Tool length is designed to reach the frame rail
- Hands free operation

**758 (5/8" - 11)**  
**759 (3/4" - 10)**

### HEAVY-DUTY TRUCK WHEEL STUD INSTALLERS



- Used for installing drive flange and spoke wheel studs
- 1-1/4" six-point drive
- Easily releases stud when removing tool
- Easily turns in studs without damage to threads

# Heavy Duty Trucks

## INSTALLERS/REMOVERS

**795**

### WHEEL STUD INSTALLER FOR FORD F250 THRU F550



- Used for installing button head wheel studs on Ford trucks F-250 Super-Duty through F-550 (1998 to present)
- These patented installers pull the stud into the drive flange or hub without damaging the threads
- 1-1/8" six-point drive
- 1-7/8" long and internally threaded M14-2.0
- Contains:
  - (1) M14-2.0 Stud Installer
  - (2) Washers;
  - (1) Spacer

**800**

### 19 PC. WHEEL STUD INSTALLER FOR HEAVY-DUTY TRUCKS



- Used to install button head wheel studs
- These patented installers pull the stud into the drive flange or hub without damaging threads
- Contains: 1-3/8", 1-1/2" and 1-3/4" six-point drive; 1-7/8" long and internally threaded; (1) each of 1-1/8"-16 right hand and left hand threaded installers; (2) 1-1/4" ID washers for 1-1/8"-16 installers; (1) 1-1/4" ID spacer for 1-1/8"-16 installers; (1) each 5/8"-18 right hand and left hand threaded installers; (2) 7/8" ID washers for 5/8"-18 installers; (1) 7/8" ID spacer for 5/8"-18 installers; (1) each 3/4"-16 right hand and left hand threaded installers; (2) 7/8" ID washers for 3/4"-16 installers; (1) 7/8" ID spacer for 3/4"-16 installers; (1) M22-1.50 installer; (2) 1" ID washers for M22-1.50 installer; (1) ID spacer for M22-1.50 installer

## HEAVY-DUTY TRUCK WHEEL STUD REMOVERS

**805**



- Used to push out button head serrated type wheel studs used on medium and heavy-duty trucks, buses and motor coaches
- Fits the most common bolt circle on the market (10-hole, 11-1/4" bolt circle)
- Does not require a hydraulic power pack
- Used to remove damaged and broken studs, up to 1-1/8" diameter and up to 4-1/4" of stand out length, as well as studs that have broken off shear with the hub face
- Consists of a base plate and housing that mount to the truck's hub using two adjoining wheel studs and M22 adapter bushings to allow the base plate to be mounted to a hub piloted mounting type hub
- Accurately self centers over the damaged stud
- Screw shaft and screw shaft cap can be driven with a pneumatic impact wrench

**820**



*Set consists of all components from both the 800 wheel stud installer kit and the 805 wheel stud remover set with the exception of the 5/8" - 18 right hand and 5/8" - 18 left hand installers, the 7/8" ID washers and the 7/8" spacer.*

## WRENCHES

**4651**

### AUTOMATIC SLACK ADJUSTER RELEASE TOOL AND WRENCH



- Used for adjusting automatic slack adjusters on Rockwell®, Arvin® Monitor systems
- Fork-end tool to release the tensioner button, and a 5/16" double square offset reversible wrench with E-Z Grip handle
- Release the anti-reverse mechanism without prying and apply more turning power with less fatigue to the hand

**7578**

### 7/16" AUTOMATIC SLACK ADJUSTER WRENCH



- For brake adjustment on heavy-duty trucks equipped with Haldex® slack adjusters
- Extra long handle provides comfort while overcoming the anti-reverse mechanism

**8569**

### 9/16" EXTRA LONG AUTOMATIC SLACK ADJUSTER WRENCH



- For brake service and slack adjuster installation on heavy-duty trucks equipped with Bendix®
- Extra deep hex allows reach to recessed adjusters

# Heavy Duty Trucks

## GAUGES

**5469**

### **DOUBLE-END HANDLE FOR FEELER GAUGE BLADES**



- Color-coded handle makes using the correct blade fast and accurate, where light blue is for intake and red for exhaust
- Even in dimly lit shops, the technician can be confident in using the correct blade without wasting time having to read the blades every time he or she sets them down and picks them up again
- Used in the Feeler Gauge Set for Heavy-Duty Truck Valve Lash Adjustment (part no. 3079)

**3072**

### **23-BLD FEELER GAUGE FOR CUMMINS DIESEL VALVE ADJ.**



- Loose set of feeler gauge blades have a range of .008" to .030" to cover heavy-duty truck engine applications
- 6" blade, with 1" long 90° offset
- Used in the Feeler Gauge Set for Heavy-Duty Truck Valve Lash Adjustment (part no. 3079)

**3074**

### **23-BLD FEELER GAUGE FOR GEN. H.D. TRUCK VALVE ADJ.**



- Loose set of feeler gauge blades have a range of .008" to .030" to cover heavy-duty truck engine applications
- 3" blade, with 5/8" long 45° offset
- Used in the Feeler Gauge Set for Heavy-Duty Truck Valve Lash Adjustment (part no. 3079)

**3075**

### **23-BLD FEELER GAUGE FOR DETROIT DIESEL VALVE ADJ.**



- Loose set of feeler gauge blades have a range of .008" to .030" to cover heavy-duty truck engine applications
- 3" blade, with 1" long 30° offset, and 1/2" of 0.002" step
- Heavy-Duty Truck Valve Lash Adjustment (part no. 3079) Heavy-Duty Truck Valve Lash Adjustment (part no. 3079)

**3078**

### **FEELER GAUGE SET, JACOBS ENGINE BRAKES-DETROIT DIESEL**



- Blade sizes and usage: 0.019" - 0.021" Series 60 model years 1999 and before; 0.022" - 0.024" Series 60 all model years, Series 50; 0.025" - 0.027" Series 60 all model years, Series 50; 0.031" - 0.033" Series 60 model year 2000 and after; 0.058" - 0.060" Series 71, Series 92; 0.063" - 0.065" Series 71, Series 92
- This set contains the gauges required to set slave piston lash on Detroit Diesel engines
- Set consists of 4" offset feeler gauges with 0.002" step Go-No-Go
- 0.002" step is on the bottom side of the blade so that the Go-No-Go can be felt against the exhaust rocker arm adjusting screw or exhaust valve bridge (depending on the model engine)

**3079**

### **MASTER FEELER GAUGE SET FOR H.D. TRUCK VALVE ADJ.**



- Set contains the following handle and gauge configurations which can also be purchased individually: Part No. 5469 - double-end plastic color-coded handle; Part No. 3072 - 6" blade with 1" long 90° offset; Part No. 3074 - 3" blade with 5/8" long 45° offset; Part No. 3075 - 3" blade with 1" long 30° offset and 1/2" of 0.002" step
- The feeler gauge blades sets have a range of .008" to .030" to cover heavy-duty truck engine applications
- This handle and blade set was designed to make valve adjustments faster and easier
- The double-end plastic handle is color-coded light blue for intake and red for exhaust, with three different configurations of offset blades

# Digital Thermometers, Multimeters & Test Leads

## DIGITAL THERMOMETERS & MULTIMETERS

### 13800

#### DIGITAL THERMOMETER



- Foldout stainless steel probe
- Magnetic mount for hands-free use
- Large, easy-to-read display
- Min/Max
- -58°F to 572°F

### 13801

#### IP54 INFRARED THERMOMETER



- IP54 Splash proof certification
- 12:1 distance/spot ratio
- Min/Max, diff and lock
- Backlit display
- -76°F to 1022°F

### 13802

#### INFRARED THERMOMETER



- UV worklight
- 12:1 distance/spot ratio
- Backlit display
- Max value capture
- -58°F to 1200°F

### 13803

#### AUTOMOTIVE DIGITAL MULTIMETER



- ACV/DCV, ACA/DCA, resistance, diode, frequency, continuity, temperature
- Duty cycle and dwell reading
- RPM measurement
- Ruggedized design
- Inductive pickup/carrying case/thermocouple probe/test leads

### 13804

#### CAT IV DIGITAL MULTIMETER



- Cat IV 600/Cat III 1000V for HEV work
- High accuracy standard DMM
- Fuel injector pulse width testing
- RPM measurements with included inductive pick-up
- Limited Lifetime Warranty

## REPLACEMENT PARTS

### 13900

#### AB13 BATTERY



- Replacement batteries for 13800 - 3 pack

### 13901

#### AAA BATTERIES



- Replacement batteries for 13801, 13802 & 13804 - 2 pack

### 13902

#### POUCH



- Replacement pouch for 13802

### 13907

#### 9V BATTERY



- Replacement battery for 13803

### 13908

#### INDUCTIVE PICKUP



- Replacement inductive pickup for 13803 and 13804

### 13909

#### PROTECTIVE CASE



- Replacement protective case for 13803 and 13804

### 13910

#### TEMPERATURE ADAPTER



- Replacement temperature adapter for 13803

### 13912

#### TEST LEADS



- Replacement test leads for 13803 and 13804

### 13914

#### TEMPERATURE PROBE



- Replacement K-type thermocouple probe for 13803 and 13804

### 13915

#### UNIVERSAL HANGER & MAGNET



- Universal hanger & magnet for 13804
- Adjustable "hook-and-loop" hanger strap
- Perfect for hands-free operation

# Digital Thermometers, Mutimeters & Test Leads

## TEST LEADS

- Used for testing electrical circuits in cars, trailers, boats, and more
- Retractable test leads pull out and stay at desired length and rewind into its own protective case when not in use
- 18 gauge copper wire with insulated alligator clips
- Different color wires for easy identification
- Maximum amperage: 10 AMPS fully unwound, 6 AMPS wound

**1129**

**RETRACTABLE TEST LEADS - 3 LEADS X 10 FT.**



**1138**

**MAGNETIC RETRACTABLE TEST LEADS - 2 LEADS X 30-FT.**



**1176**

**7-PIECE RETRACTABLE TEST LEAD SET**



**1130**

**RETRACTABLE TEST LEADS - 1 LEAD X 30 FT.**



**1140**

**RETRACTABLE TEST LEADS - 2 LEADS X 10 FT.**



- Use with many multimeters with steel banana jack connectors

- Includes: One 2 x 15-ft. test lead with banana plugs (1175), one pair of test probes (1170R), one pair of alligator clips (1167R), and one pair of spring hooks (1173R)

## REPLACEMENT PARTS

**1135**

**MAGNETIC RETRACTABLE TEST LEADS- 3 LEADS X 10-FT.**



**1167R**

**REPLACEMENT ALLIGATOR CLIPS FOR 1176**



**1170R**

**REPLACEMENT TEST PROBES FOR 1176**



**1173R**

**REPLACEMENT SPRING HOOKS FOR 1176**



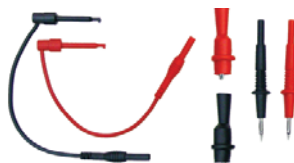
**1137**

**RETRACTABLE TEST LEADS - 2 LEADS X 30-FT.**



**1174R**

**REPLACEMENT SET - ALLIGATOR CLIPS, TEST PROBES & SPRING HOOKS**



**1175**

**RETRACTABLE TEST LEADS - 2 LEADS X 15 FT. WITH BANANA PLUGS**



- Replacement set for 1176 (alligator clips, test probes, spring hooks)

# Diesel

## COMPRESSION TESTING

### 74498

#### DIESEL ADAPTER FOR ROUND CYLINDER LEAKAGE TESTER



- For use with CLT-2, CLT-1 and diesel adapters
- Measure diesel engine cylinder ability to hold compressed shop air
- QC X QC plug

### TU-17

#### WHISTLE FOR CYLINDER LEAKAGE TESTER



- Whistles on compression stroke and stops whistling at top dead center
- Quick coupler connects directly to the cylinder hose on CLT-1 and CLTI-2 as well as 74498 diesel adapter
- Also used to remount distributors correctly

### TU-15

#### DIESEL COMPRESSION TESTER



- Tests cylinder pressure on diesel cars and trucks
- Handy deflator for releasing air and automatic re-setting of gauge for repeat testing
- Swivel-end Quick Coupler for easy connection to all our adapters
- Wire reinforced hydraulic hose is 16 1/2" long
- The 2 1/4" gauge has a dual scale dial with ranges from 0 - 1000 psi and 0 - 70 bar with easy to read red and black dial

### TU-15-51

#### DIESEL COMPRESSION TEST SET



- This is a great basic set and a must have for diesel work in the American market
- See chart on page 51 for included adapters
- Tester has a handy deflator for releasing air and re-testing
- A 16-1/2" wire reinforced hydraulic hose has a Quick Coupler on a swivel for ease of connection
- Includes adapters for GM, Isuzu, Lincoln Mark VII, Continental, Ford / Navistar, Audi, Mercedes, Peugeot, Toyota, VW, and Volvo

### TU-15-52B

#### DIESEL COMPRESSION TEST SET - LIGHT CARS/TRUCKS



- This set is a must have for diesel light cars and trucks in the global market
- See chart on page 51 for included adapters
- Tester has a handy deflator for releasing air and re-testing
- A 16-1/2" wire reinforced hydraulic hose has a Quick Coupler on a swivel for ease of connection
- Includes adapters for Audi, BMW, Isuzu, Mazda, Mercedes, Mitsubishi, Nissan, Peugeot, Toyota, VW, Volvo, GMC truck, Hino, Isuzu truck

### TU-15-53

#### DIESEL COMPRESSION TEST SET



- This is a great basic set and a must have for diesel work in the American market
- See chart on page 51 for included adapters
- Tester has a handy deflator for releasing air and re-testing
- A 16-1/2" wire reinforced hydraulic hose has a Quick Coupler on a swivel for ease of connection
- Includes adapters for GM, Isuzu, Lincoln Mark VII, Continental and Ford / Navistar, Audi, Mercedes, Peugeot, Toyota, VW, Volvo

### TU-15-70

#### DIESEL COMPRESSION TEST SET WITH TESTER AND ADAPTERS



- Contains tester and all the most popular adapters needed to test heavy-duty trucks and equipment
- See chart on page 51 for included adapters
- Tester has a handy deflator for releasing air and re-testing
- A 16-1/2" wire reinforced hydraulic hose has a Quick Coupler on a swivel for ease of connection

### TU-15-71

#### DIESEL COMPRESSION ADAPTER SET



- Same as TU-15-70 with the exception of the tester
- See chart on page 51 for included adapters

**COMPRESSION TESTING**

## DIESEL COMPRESSION SET CHART

Part #	Description	TU-15	TU-15-51	TU-15-52B	TU-15-53	TU-15-70	TU-15-71
TU-15	Gauge, hose, quick connect	•	•	•	•	•	
52110	Case	•					
52102	Case		•	•	•		
52011	Case					•	•
56244	Adapter Chart		•	•	•	•	•
42553	Instructions		•	•	•	•	•
TU-15-1A	Glow Plug		•		•		
TU-15-2A	Glow Plug		•		•		
TU-15-3A	Glow Plug		•	•	•		
TU-15-4A	Injector		•	•	•	•	•
TU-15-5	Glow Plug		•	•	•		
TU-15-6	Glow Plug		•	•	•		
TU-15-8	Injector					•	•
TU-15-9	Injector					•	•
TU-15-11A	Injector					•	•
TU-15-12A	Injector					•	•
TU-15-13A	Motometer			•			
TU-15-14	Glow Plug		•	•	•	•	•
TU-15-17	Injector				•	•	•
TU-15-18A	Injector					•	•
TU-15-19	Injector					•	•
TU-15-20	Injector					•	•
TU-15-21	Injector					•	•
TU-15-22A	Glow Plug				•		
TU-15-23	Glow Plug			•		•	•
TU-15-28	Extension					•	•
TU-15-29	Extension					•	•

# Diesel

## COMPRESSION TESTING

### DIESEL COMPRESSION TEST ADAPTERS

#### TU-15-1A

**DIESEL ADAPTER  
M10-1.00 GLOW PLUG**



#### TU-15-2A

**DIESEL ADAPTER  
M10-1.00 GLOW PLUG**



#### TU-15-3A

**DIESEL ADAPTER  
M10-1.25 GLOW PLUG**



#### TU-15-4A

**DIESEL ADAPTER  
M24-2.00 INJECTOR**



#### TU-15-5

**DIESEL ADAPTER  
M12-1.25, M18-1.50  
GLOW PLUG**



#### TU-15-6

**DIESEL ADAPTER  
M12-1.25, M18-1.50  
GLOW PLUG**



#### TU-15-8

**DIESEL ADAPTER -  
7/8" INJECTOR**



#### TU-15-9

**DIESEL ADAPTER -  
1" INJECTOR**



#### TU-15-11A

**DIESEL ADAPTER -  
M21 INJECTOR**



#### TU-15-12A

**DIESEL ADAPTER -  
M24 INJECTOR**



#### TU-15-13A

**DIESEL ADAPTER -  
MOTOMETER**



#### TU-15-14

**DIESEL ADAPTER  
M10-1.25 GLOW PLUG**



#### TU-15-15

**DIESEL ADAPTER -  
SNAP-ON/OTC**



#### TU-15-17

**DIESEL ADAPTER  
M24-1.50 INJECTOR**



#### TU-15-18A

**DIESEL ADAPTER  
M17 INJECTOR**



#### TU-15-19

**DIESEL ADAPTER  
M17 INJECTOR**



#### TU-15-20

**DIESEL ADAPTER -  
3/8" INJECTOR**



#### TU-15-21

**DIESEL ADAPTER -  
9/16" INJECTOR**



#### TU-15-22A

**DIESEL ADAPTER  
M10-1.00 GLOW  
PLUG- FORD/NAVISTAR**



#### TU-15-23

**DIESEL ADAPTER  
M12-1.25 GLOW PLUG**



#### TU-15-24

**DIESEL COMPRESSION  
TEST ADAPTER  
M14-1.25**



#### TU-15-25

**DIESEL COMPRESSION  
TEST ADAPTER INTER-  
NATIONAL DT466, DT530**



#### TU-15-26

**DIESEL COMPRESSION  
TEST ADAPTER  
CUMMINS ISB**



#### TU-15-27

**DIESEL COMPRESSION  
TEST ADAPTER  
CUMMINS ISC**



## COMPRESSION TESTING

### DIESEL COMPRESSION TEST ADAPTERS

#### TU-15-28

**DIESEL COMPRESSION  
TEST ADAPTER  
CUMMINS NCT/NTS**



#### TU-15-29

**DIESEL COMPRESSION  
TEST ADAPTER  
CUMMINS N14**



#### TU-15-30

**DIESEL COMPRESSION  
TESTER 7" EXTENSION**



#### TU-15-31

**DIESEL COMPRESSION  
TEST 90 DEGREE  
ADAPTER**



#### TU-15-32

**DIESEL COMPRESSION  
TEST 45 DEGREE  
ADAPTER**



#### TU-15-33

**DIESEL COMPRESSION  
TEST ADAPTER DETROIT  
DIESEL 50 & 60**



#### TU-15-34

**DIESEL COMPRESSION  
TEST ADAPTER,  
M20-1.50**



#### TU-15-35

**DIESEL COMPRESSION  
TEST ADAPTER M8-1.00**



#### TU-15-36

**DIESEL COMPRESSION  
TESTER FOR MACK  
E6 & E7**



#### TU-15-37

**DIESEL COMPRESSION  
TEST ADAPTER FOR  
MBE-900 AND MBE-4000**



#### TU-15-38

**DIESEL COMPRESSION  
TEST ADAPTER FOR  
6.6L DURAMAX**



#### TU-15-39

**DIESEL COMPRESSION  
TEST ADAPTER M22-1.50**



#### TU-15-40

**DIESEL COMPRESSION  
TEST ADAPTER FOR  
PERKINS 4.108 ENGINES**



#### TU-15-41

**DIESEL COMPRESSION  
TEST ADAPTER FOR PER-  
KINS AND CATERPILLAR**



#### TU-15-42

**DIESEL COMPRESSION  
TEST ADAPTER FOR  
CATERPILLAR 3116**



#### TU-15-43

**DIESEL COMPRESSION  
TEST ADAPTER FOR CATER-  
PILLAR 3126 AND 3126B**



#### TU-15-44

**DIESEL COMPRESSION  
TEST ADAPTER FOR CATER-  
PILLAR 3126B AND 3126E**



#### TU-15-45

**DIESEL COMPRESSION  
TEST ADAPTER FOR  
CATERPILLAR 3176**



#### TU-15-46

**DIESEL COMPRESSION  
TEST ADAPTER FOR  
CATERPILLAR 3196**



#### TU-15-47

**DIESEL COMPRESSION  
TEST ADAPTER FOR  
CATERPILLAR 3304**



#### TU-15-48

**DIESEL COMPRESSION  
TEST ADAPTER FOR  
CATERPILLAR**



#### TU-15-49

**DIESEL COMPRESSION  
TEST ADAPTER FOR  
CATERPILLAR 3406E**



#### TU-15-75

**DIESEL COMPRESSION  
TEST ADAPTER  
CUMMINS ISB**



#### TU-15-76

**DIESEL COMPRESSION  
TEST ADAPTER  
CATERPILLAR 3408E/3412E**



#### TU-15-77

**DIESEL COMPRESSION  
TEST ADAPTER CATER-  
PILLAR 3500 SERIES**



#### TU-15-78

**DIESEL COMPRESSION  
TEST ADAPTER  
CUMMINS ISX**



#### TU-15-79

**DIESEL COMPRESSION TEST  
ADAPTERS INTERNATIONAL  
MAXXFORCE**



# Diesel

## COMPRESSION TESTING

### APPLICATION CHART FOR DIESEL COMPRESSION TEST ADAPTERS

Application	Engine	Type	Thread	Adapter
Allis Chalmers	6000, 7000, 10000, 11000	Injector M21	-	TU-15-11A
Audi	Early Models, see VW for TDI	Injector	M24-2.00	TU-15-4A
	(1982-83) 4000, 4000 Quattro 1.6L	Glow Plug	M12-1.25	TU-15-6
	(1979-85) 5000 Quattro 2.0L			TU-15-23
Bedford	200, 220, 300, 330, 466	Injector M21	-	TU-15-11A
BMW	2.4L MFi Turbo	Glow Plug	M12-1.25	TU-15-6
				TU-15-23
Caterpillar	D336, 1674, 1676, 3406, 3408, 3412 3406B	Injector 9/16"	7/8"-14	TU-15-21
	3208, 110	Injector 3/8"	-	TU-15-20
	3022, 3023, 3024, 3034	Glow Plug	M10-1.25	TU-15-14
	3116	Injector	-	TU-15-42
	3054, 3056	Injector	M24-1.50	TU-15-41
	3126, 3126B	Injector	-	TU-15-43
	3126D, 3126E	Injector	-	TU-15-44
	3176	Injector	-	TU-15-45
	3196	Injector	-	TU-15-46
	3304	Injector	-	TU-15-47
	3204, Late Model 3208, 3304B, 3306C, 3406C	Injector	-	TU-15-48
	3406E	Injector	-	TU-15-49
	3408E, 3412E	Injector	-	TU-15-76
	3500 Series	Injector	-	TU-15-77
Chevette/Isuzu	1.8L, 2.2L	Glow Plug	M10-1.25	TU-15-3A
Cummins	V-185, V-210, V-225, V-555, VT-255, VT-555	Injector 7/8"	-	TU-15-8
	NH, V6, V8, V12, All 5-1/2" Bore NH, and 903 V8 Cylinder PTB	Injector 1"	-	TU-15-9
	N14	Extension	-	TU-15-29
	NTC, NTS, M11, ISM, L10	Extension	-	TU-15-28
	ISB	Injector	-	TU-15-26
	ISC, ISL	Injector	-	TU-15-75
	B Series 2.9L, 3.9L, 5.9L	Injector	M24-1.50	TU-15-27
	C Series 8.3L	Injector M17	-	TU-15-17
	B Series 3.3L	Injector M19	-	TU-15-18A
	ISX	Injector	-	TU-15-19
Detroit Diesel	53, 71, 92, 110, 149, V53, V71 8.2L	Injection M24	-	TU-15-78
	Series 40	Injector	-	TU-15-12A
	Series 60 and 50	Injector	-	TU-15-25
Deutz	Most models	Glow Plug	M12-1.25	TU-15-33
	Some models	Injector M17	-	TU-15-6

## COMPRESSION TESTING

### APPLICATION CHART FOR DIESEL COMPRESSION TEST ADAPTERS

Application	Engine	Type	Thread	Adapter
Dodge/Cummins, Dodge	(1989-98) 5.9L	Injector	M24-1.50	TU-15-17
	(1998-2009) 5.9L ISB	Injector	-	TU-15-26
	2.7L	Glow Plug	M10-1.00	TU-15-2A
Fiat Allis	8035-02-300, 8035-02-301, 8035-02-302, 8045-02, 8045-03	Injector M21	-	TU-15-11A
Ford	6.6L, 7.8L, Bosch	Injector M21	-	TU-15-11A
Ford/Mazda	(1984-87) 2.0L; (1983-84) 2.2L Escort, Lynx, Ranger, Tempo, Topaz	Glow Plug	M10-1.25	TU-15-14
Ford/Mitsubishi	(1985-87) Ranger 2.3L	Glow Plug	M10-1.25	TU-15-14
Ford  Ford / Navistar	(up to 1994) 6.9L, 7.3L	Glow Plug	M10-1.00	TU-15-1A
	(1994-04) 7.3L Turbo, Direct Injection Power Stroke	Glow Plug	M10-1.00	TU-15-22A
	(2003-08) 6.0L, 6.4L Power Stroke	Glow Plug	M14-1.25	TU-15-24
	6.7L	Glow Plug	M8-1.00	TU-15-35
	International MaxxForce DT	Injector	-	TU-15-79
General Motors	4.3L V6, 4.3L V8, 5.7L V8 (1978-85)	Glow Plug	M10-1.00	TU-15-1A
	6.2L & 6.5L V8 True Diesel (1982-2002)	Glow Plug	M10-1.00	TU-15-2A
	DuraMax 6.6L Turbo Diesel (2001-2005)	Glow Plug	M10-1.25	TU-15-3A
	DuraMax 6.6L Turbo Diesel (2005-Present)	Glow Plug	M10-1.25	TU-15-38
	DuraMax ID415	Injector M17	-	TU-15-19
GMCTruck	W4, W7, W7HV	Glow Plug	M12-1.25	TU-15-23
Hatz	Some Models	Injector M17	-	TU-15-19
Hino	Medium	Glow Plug	M12-1.25	TU-15-23
Hummer H1	(1992-2004) Optimizer 6500 V8 Turbo & 6.2L V8	Glow Plug	M10-1.00	TU-15-2A
Hummer H1-Alfa	6.6L Duramax (2005-06)	Glow Plug	M10-1.25	TU-15-38
International Harvester	D/DT361, D/DT429, DV462, DV/DVT550, DT/DV/DVT, 573, 361, 407	Injector M21	-	TU-15-11A
	DT466, DT530, HT530, 3200, 3800, 4300, 4400, 5500, 5600, 7300, 7400, 7500, 8500	Injector	-	TU-15-25
	VT365, 4200	Glow Plug	M14-1.25	TU-15-24
Isuzu/Isuzu Truck	(1992-98) HE1-TC; (1998-present) 6HK1-TC	Glow Plug	M10-1.25	TU-15-3A
	(1998-present) 4HE1-TC; (up to 1998) 6HK1-TC	Glow Plug	M12-1.25	TU-15-5 TU-15-6 TU-15-23
	1.8L, 2.2L, I-Mark, Pick-up, Trooper	Glow Plug	M10-1.25	TU-15-14
	(2005) Liberty 2.8L	Glow Plug	M10-1.00	TU-15-2A
J.I. Case	2.9L, 3.9L, 5.9L	Injector	M24-1.50	TU-15-17
	8.3L	Injector M17	-	TU-15-18A
	Models not using pencil nozzle	Injector M21	-	TU-15-11A
J.I. Case 70 Series	188, 207	Injector 3/8"	-	TU-15-20

# Diesel

## COMPRESSION TESTING

### APPLICATION CHART FOR DIESEL COMPRESSION TEST ADAPTERS

Application	Engine	Type	Thread	Adapter
John Deere	Early 300, 400, 500 Series;	Injector 3/8"	-	TU-15-20
	276, 404, and 531 CID			
	404, 466, 531, 619	Injector M21	-	TU-15-11A
Kawasaki	Mule 3010 Diesel (Kubota)	Injector	M20-1.50	TU-15-34
	Mule 3010 Diesel (Diahatsu)	Glow Plug	M10-1.25	TU-15-14
Kubota	D722, D902, D950, D1105, V1505, V2203	Glow Plug	M8-1.00	TU-15-35
	D650, D1100	Glow Plug	M10-1.25	TU-15-14
	D902, D950	Injector	M20-1.50	TU-15-34
Lincoln	(1984-85 cars) Mark VII, Continental 2.4L MFI Turbo	Glow Plug	M12-1.25	TU-15-6
				TU-15-23
Mack Truck	END 405, 457, 510, 519, 605, 672, 673, 674, 711, 864, ENDT 673, 675, 676, 865, 866	Injector M21	-	TU-15-11A
	E6, E7, E-Tech, E460	Injector	-	TU-15-36
Mazda	(1982-84) B2200 2.2L, (1984-85) 626 2.0L	Glow Plug	M10-1.25	TU-15-14
Massey Ferguson	4.203, 4.236, 4.248, 6.354, 8.540	Injector M21	-	TU-15-11A
Mercedes-Benz	(1960-80) models	Glow Plug	M18-1.50	TU-15-5
	(1978-99) models, (1988-89) 190E 2.5L, (1991-99) E300, (1992-95) 300 SD / S350	Glow Plug	M12-1.25	TU-15-6
				TU-15-23
				TU-15-5
	(1966-87) models	Injector	M24-2.00	TU-15-4A
	(1987-2005) models	Injector	M22-1.50	TU-15-39
	(2004-05) E320 CDI	Glow Plug	M10-1.00	TU-15-1A
	MBE 900 & MBE 4000	Injector	-	TU-15-37
	2.7L	Glow Plug	M10-1.00	TU-15-2A
Mitsubishi	2 and 3 cylinder engines	Glow plug	M10-1.25	TU-15-14
Mitsubishi-Fuso	Medium	Glow Plug	M10-1.25	TU-15-14
	Medium	Injector M21	-	TU-15-11A
Navistar / International	6.9L, 7.3L	Glow Plug	M10-1.00	TU-15-1A
	(up to 1997) DT 360, DT408, DT466, 312, 360, 414, 436, 446 C.I.D.	Injector M17	-	TU-15-19
	7.3L T444E	Glow Plug	M10-1.00	TU-15-22A
	6.0L VT365E	Glow Plug	M14-1.25	TU-15-24
	7.6L DT466E, 8.7E DT530E	Injector	-	TU-15-25
Nissan	(1965-71) Cedric 2.2L SD22	Glow Plug	M10-1.25	TU-15-14
	(1981) 810 2.8L (Datsun) RD 28;	Glow Plug	M12-1.25	TU-15-23
	(1982-83) Maxima 2.8L RD28			
	(1983-87) Sentra 1.7L CD17	Glow Plug	M10-1.00	TU-15-1A
Nissan / UD Truck	Medium	Glow Plug	M10-1.25	TU-15-14
Onan	DSL, MDL	Injector M21	-	TU-15-11A

## COMPRESSION TESTING

### APPLICATION CHART FOR DIESEL COMPRESSION TEST ADAPTERS

Application	Engine	Type	Thread	Adapter
Perkins	3.125, 4.203, 4.236, 4.248, 4.318, 6.354, 6.370, 8.540, 8.640, Phaser/1004, Phaser/1006	Injector M21	-	TU-15-11A
	100, 200, 400, 700 series	Glow Plug	M10-1.25	TU-15-14
	4.108	Glow Plug	-	TU-15-40
	1000 series	Injector	5/8"-18	TU-15-41
Peugeot	Most Models	Glow Plug	M12-1.25 M18-1.50	TU-15-6
Scania	DN11, DS11	Injector M21	-	TU-15-11A
Sprinter/ Mercedes/ Freightliner/Dodge	2.7L, 3.0L, OM642	Glow Plug	M10-1.00	TU-15-2A
Toyota	1.8L	Glow Plug	M10-1.25	TU-15-3A
	2.2L	Glow Plug	M10-1.25	TU-15-14
UD Truck	Medium	Glow Plug	M10-1.25	TU-15-14
Universal Marine	M15, M20, M25, M25XP, M30	Injector	M20-1.50	TU-4A
				TU-15-34
Volvo	Early models	Injector	M24-2.00	TU-15-4A
	Models 30's, 40's	Glow Plug	M12-1.25	TU-15-23
Volvo Penta	MD marine engines	Injector M17	-	TU-15-18A
VW	(1970s) Rabbit	Injector	M24-2.00	TU-15-4A
	(1979-81) Dasher, (1996) Eurovan, (1985-96) Golf, (1981-95) Jetta, (1992-94) Passat, (1981-84) Pick-up, (1982-85) Quantum, (1977-84) Rabbit, (1982-85) Vanagon	Glow Plug	M12-1.25	TU-15-5 TU-15-6 TU-15-23
	(1997-05) Golf, (1997-05) Jetta / Jetta Wagon, (1998-05) Beetle, (1996-97) Passat, (2004-05) Touareg	Glow Plug	M10-1.00	TU-15-1A
Waukesha	Most	Injector M21	-	TU-15-11A
Westerbeke	Marine engines	Glow Plug	M10-1.00	TU-15-1A
		Glow Plug	M10-1.25	TU-15-14
		Injector M21	-	TU-15-11A
White Farm	66, 77, 88, 99, 166, 177, 188, 199, 550, 660, 770, 880, 950, 1550, 1555, 1600, 1650, 1655, 1750, 1755, 1800, D2000, 2300, 3000	Injector M21	-	TU-15-11A
Wisconsin	340, 350, 430, 660, 670, 750, 860, 1000	Injector M21	-	TU-15-11A
Yanmar	Some models	Injector M17	-	TU-15-18A

# Diesel

## FUEL PRESSURE TESTING

### TU-32

#### MASTER FUEL SYSTEM TEST KIT - CUMMINS 5.9L



- Contains compound pressure/vacuum gauge, fuel pressure test adapters, inlet restriction test adapters, and fuel volume test adapters
- Contains all adapters necessary for testing on Cummins Series B and ISB engines (including Dodge Ram)
- All fuel volume, pressure and air bubble test adapters are individually labeled for easy identification

### TU-32-1

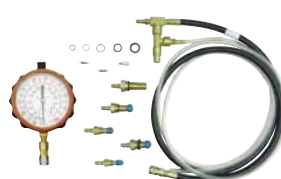
#### FUEL SYSTEM TEST UPDATE KIT - CUMMINS 5.9L



- For use with current fuel system test kits
- Includes an OTC-style conversion adapter so that pressure adapter and inlet restriction adapters can be used with existing gauges on the market

### TU-32-2

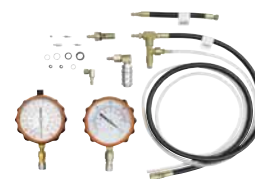
#### BASIC DIESEL FUEL PRESSURE TEST KIT



- Used to test fuel pressure between the lift pump and the injection pump on diesel engines
- Includes 100 PSI gauge assembly with 4-ft. hose, pressure relief valve and 6-ft. clear PVC tube, 5 banjo bolt adapters ranging from 8mm to 14mm and 1 repair kit
- Can be used to test most diesel engines from single cylinder to V32 models

### TU-32-3

#### INTERNATIONAL DIESEL FUEL SYSTEM TEST KIT



- Used to perform pressure and restriction testing of fuel systems on International engines VT365, T444E, DT466, DT530, and DT570
- Contains: two gauges (0 - 100 PSI gauge, and 0 - 30 inHg gauge), a 4-ft. hose and four adapters

### TU-32-4

#### FORD POWER STROKE DIESEL FUEL SYSTEM KIT



- For diesel fuel pressure testing on Ford Power Stroke engines 1994 to present
- Includes a 100 PSI gauge, a bleed off valve hose assembly, and all the adapters necessary to pressure test the fuel system on Power Stroke engines
- Adapters can be used for testing at both the fuel filter and at the fuel pump

### TU-32-5

#### FORD POWER STROKE DIESEL FUEL PRESSURE ADAPTER KIT



- Includes all adapters necessary to test at either the fuel pump or the fuel filter on Ford Power Stroke engines 1994 to present
- Adapters can be used with any gauges from the following sets: TU-443, TU-469, TU-540, TU-550, TU-32-2, TU32-3
- Adapters can also be used with select OTC gauges if used with the Lang Products conversion adapter 74454

### TU-32-6

#### GM 6.6L DURAMAX DIESEL FUEL SYSTEM TEST KIT



- For diesel fuel pressure and vacuum testing on GM 6.6L Duramax engines
- Gauge assembly with 6-ft. hose and quick coupler
- 3-1/2" gauge reads 30 inHg to 15 PSI

### TU-32-7

#### HIGH PRESSURE OIL SYSTEM TEST KIT



- Used to diagnose the inline pressure, pressure loss to one head, and oil pump deadhead pressure in the following: Ford Power Stroke 6.0L and 7.3L as well as International T444E and VT 365E engines
- Includes one each of the following: 5000 PSI gauge and hose assembly, male and female STC couplings, male STC plug, STC release tool, male and female JIC #6 adapters, male JIC #6 plug, male 12mm straight thread with o-ring adapter

## FUEL PRESSURE TESTING

### TU-32-8

#### HIGH PRESSURE OIL SYSTEM TEST KIT



- Used to diagnose the inline pressure and oil pump deadhead pressure in the following engines using ORFS connectors: DT-466 engines with EGR, MaxxForce 5, MaxxForce DT, MaxxForce 9, and MaxxForce 10
- Includes one each of the following: 10,000 PSI gauge and hose assembly, inline adapter tee, shop air adapter

### TU-32-20

#### FUEL SYSTEM PRESSURE TEST GAUGE - COMPUCHEK



- Used to check fuel system pressure on diesel engines with Compuchek test ports
- Fits Compuchek test ports on the fuel system of Cummins diesel engines as well as other diesel engines that have been outfitted with the Compuchek test ports
- Consists of a hose assembly with a female Compuchek fitting on one end and a 3-1/2", 300 PSI gauge on the other

### TU-32-21

#### FUEL SYSTEM RE-STRICITION TEST GAUGE - COMPUCHEK



- Used to check fuel system restriction on diesel engines with Compuchek test ports
- Fits Compuchek test ports on the fuel systems of Cummins, International, and Detroit Diesel engines as well as other diesel engines that have been outfitted with the Compuchek test ports
- Consists of a hose assembly with a female Compuchek fitting on one end and a 3-1/2", 30 inHg vacuum gauge on the other

### TU-32-22

#### COMPUCHEK TEST PORT



- Used to measure fuel pressure and/or restriction on diesel engines in conjunction with a Compuchek pressure/restriction gauge
- Can be added to an engine's fuel system permanently or temporarily for testing pressure or restriction with the Compuchek pressure tester

### TU-32-23

#### INTERNATIONAL SCHRADER ADAPTER



- Adapter is a hose assembly with a male quick-connect plug on one end and an International Schrader adapter on the other
- Used to connect a pressure gauge to the engine fuel system
- Fits Schrader test ports on the fuel system of International Diesel engines and Ford Power Stroke (1994-1997) diesel engines

### TU-32-24

#### INTERNATIONAL RIGHT ANGLE ADAPTER



- Used to connect a pressure gauge to the engine fuel system
- Tool is a right angle adapter with a male quick-connect plug on one end and an International Schrader adapter on the other
- Fits Schrader test ports on the fuel system of International Diesel engines and Ford Power Stroke diesel engines

### TU-32-25

#### COMPUCHEK ADAPTER



- To be used with the Lang Tools 74438 gauge assembly, or the 74424 gauge assembly with the 74425 hose assembly
- Tool is a Compuchek quick coupler socket with a male quick coupler plug
- Used to measure fuel pressure, check for air bubbles and bleed air from the fuel system on the family of engines from Navistar/International VT365, DT466, DT570 and HT570

### TU-32-26

#### FORD POWER STROKE 7.3L FUEL PRESSURE ADAPTER



- For diesel fuel pressure testing on Ford Power Stroke 7.3L engines, 1998 thru 2004
- Quick coupler adapter consists of an 8-in. hose with 1/8-in. MNPT on one end and a QC plug on the other

### TU-32-28

#### INTERNATIONAL MAXXFORCE ADAPTER



- Fuel pressure test adapter for late model International MaxxForce engines
- Applications include: late model DT-466 engines with EGR, MaxxForce DT, MaxxForce 9, and MaxxForce 10 engines

### TU-32-27

#### FORD POWER STROKE 6.0L FUEL PRESSURE ADAPTER



- For testing Ford Power Stroke 6.0L engines, 2003 to present
- Quick coupler adapter consists of M12-1.50 male fitting on one end of a 6-in. hose with 1/4-in. NPTF on the other

# Diesel

## FUEL ADAPTERS, ASSEMBLIES & REPLACEMENT PARTS

**71327**



**73211**



**74427**



**74425**



**74471**



**74484**



**74485**



Part No.	Description	Point
<b>71327</b>	Fuel Injection Kit	Kit contains: 34021, 35031, 71317, 71328, 74431, 74432, 74433, 74434 and 74435
<b>73211</b>	100 PSI Gauge	Gauge assembly for the TU-32-2, TU-32-3 or TU-32-4
<b>74425</b>	Release Valve & Amp Tubing	Hose assembly for the TU-32, TU-32-2, TU-32-3 & TU-32-4
<b>74427</b>	Gauge assembly	Gauge assembly for the TU-32-3
<b>74471</b>	M14-1.50 Banjo Bolt for CIS	M14 banjo bolt
<b>74484</b>	5/16" quick disconnect hose assembly	5/16" quick disconnect hose assembly with quick coupler plug: Chrysler, Ford
<b>74485</b>	3/8" quick disconnect hose assembly	3/8" quick disconnect hose assembly with quick coupler plug: GM

## COMPRESSION TESTING

### CLT-2

#### CYLINDER LEAKAGE TESTER WITH 2 GAUGES - 100 PSI



- This tester measures the ability of an engine cylinder to hold compressed air using shop air pressure and supplements a compression tester
- Has a precision regulator, an M14 standard reach adapter on a 26" hose assembly and an M14 long reach solid adapter
- The 2-1/2" special gauge has one multicolored band for measuring low, moderate and high leakage, and a scale range from 0-100%. The second gauge is 2-1/2" and has a dual scale dial PSI and bar, which allows the technician to monitor input air-line pressure

### CLT-4

#### CYLINDER LEAKAGE TESTER WITH 2 GAUGES - 35 PSI



### TU-3

#### UNIVERSAL COMPRESSION TESTER



- Tests compression on domestic and foreign cars and trucks with gasoline engines
- Adapters included: 14mm; 18mm short solid adapter, 14mm; 18mm long flex adapter, and 14mm long reach adapter
- Screw-in adapters with o-rings provide professional accuracy
- Long flex 12" hose and adapters eliminate need to remove engine accessories to test compression
- Side release valve allows quick re-testing of cylinder without removing adapter
- The 2-1/2" gauge has a dual scale dial with ranges from 0-300 PSI and 0-21 bar

### TU-7

#### FLEX DRIVE COMPRESSION TESTER



- Tests domestic and foreign cars and trucks with gasoline engines
- 14mm and 18mm adapter attached to end of 12" hose
- Separate 14mm long reach adapter that can be screwed onto end of hose adapter by hand
- Side release valve allows multiple re-testing without removing tester
- 2-1/4" gauge has dual scale dial with ranges from 0-300 PSI and 0-21 bar

### TU-8A

#### QUICK COMPRESSION TESTER



- This handy tester is ideal on cars with easy accessibility to cylinders
- For domestic and imported cars and trucks with gasoline engines
- Short offset stem has universal rubber cone for easy seating in most spark plug holes
- The 2-1/4" gauge has a dual scale dial with ranges from 0-300 PSI and 0-21 bar

# Gas/Petrol

## COMPRESSION TESTING

### TU-17

#### WHISTLE FOR CYLINDER LEAKAGE TESTER



- Whistles on compression stroke and stops whistling at top dead center
- Quick coupler connects directly to the cylinder hose on CLT-2 and CLT-4 as well as 74498 diesel adapter
- Also used to re-install distributors correctly

### TU-18

#### WHISTLE - GENERIC



- Whistles on the compression stroke and stops whistling at approximately Top Dead Center
- Whistle is attached to hose with 14mm and 18mm spark plug threads
- Very useful to locate approximate Top Dead Center for cylinder leak testing
- Can also be used to set approximate distributor timing

### TU-20-1 (WITH BOOT) TU-20-2 (WITHOUT BOOT)

#### JIFFEE COMPRESSION TESTER W/ GAUGE BOOT



- The 2-1/4" gauge has a dual scale dial with ranges from 0-300 psi and 0-21 bar
- Set also includes the following: Straight adapter with rubber cone, 45° angle adapter with rubber cone, 4" solid extension, and 7-1/2" flex extension

### TU-21

#### SMALL ENGINE COMPRESSION TESTER



- Will test all small engines with M14 or M18 threads
- Valve core at bottom ensures accurate readings
- The 1-1/2" gauge has a dual scale dial with ranges from 0-200 PSI and 0-14 bar

### TU-30A

#### COMPRESSION TESTER SET



- Tests compression on all domestic and foreign cars and light trucks with gasoline engines, including mini engines
- The 2-1/2" gauge has a dual scale dial with ranges from 0-300 PSI and 0-21 bar; includes durable boot for protection
- Set also includes: small engine tester (part no. TU-21), M14 separate flexible hose adapter with short thread, M14 separate flexible hose adapter with long thread, M18 separate flexible hose adapter with short thread, M18 solid long reach adapter, M10 and M12 solid adapters, complete quick coupler for valve repairs, and repair parts kit
- Neatly arranged in a plastic box with compartments for all parts

### TU-310C

#### "HANDS FREE" MOTORCYCLE COMPRESSION TESTER



- Metal clip can be attached to the gauge; the gauge can then be clipped to the frame, or handle bars allowing hands free testing
- Includes 10, 12, 14, and 18mm long reach adapters to test most engines; extra long 16" hose for gauge to reach handle bars
- Also tests domestic and imported small cars and trucks with gasoline engines
- The 2-1/4" gauge has a dual scale dial with ranges from 0-300 psi and 0-21 bar

## COMPRESSION TESTING

### GAS/PETROL COMPRESSION TEST ADAPTERS

#### 901

##### AIR HOLD FITTING SET



- Use to apply air pressure to keep valve closed wheel replacing seal/spring
- Includes 14mm and 18mm adaptors threaded for 1/4" NPT

#### 73102

##### M10-1.00 MALE X M14-1.25 FEMALE SOLID ADAPTER



- For testing compression on small engines such as: snow-mobiles, motorcycles, outboard motors and more
- Male thread is 10-1.00mm, female is 14-1.25mm
- Use with any compression tester with a 14mm fitting

#### 73103

##### M12-1.25 MALE X M14-1.25 FEMALE SOLID ADAPTER



- For testing compression on small engines such as: snow-mobiles, motorcycles, outboard motors and more
- Male thread is 12-1.25mm, female is 14-1.25mm
- Use with any compression tester with a 14mm fitting

#### 73106

##### MINI GAS ENGINE ADAPTER - 14MM X 18MM



- For small displacement engines such as jet skis, string trimmers, small motorcycles, chain saws and more
- Can be used with TU-3, TU-30 or TU-310 only

#### 73108

##### COMPRESSION TEST ADAPTER FORD 3V TRITON® ENGINE



- Consists of M16-1.50 external threads and o-ring to seal the spark plug hole
- For use on Ford 3VTRITON engines; 2004-2010 4.6L and 5.4L Ford F-150; and 2005-2009 4.6L Ford Mustang
- M14-1.25 internal thread to attach to male end of a M14 compression test hose
- 11/16" external hex can be used to remove the adapter from the spark plug hole

#### 73109

##### COMPRESSION ADAPTER 73109



- Combination compression adapter to be used on cylinder heads with M14 and M18 threads
- M18 -1.5
- M14-1.25

#### 73110

##### M14 COMPRESSION ADAPTER EXTENSION



- 8" long M14-1.25 compression test adapter provides easier access for compression testing where spark plug holes are recessed
- Rigid straight tubing is easier to thread into a recessed spark plug hole than a threaded adapter on the end of a test hose

#### 73111

##### M12 & M16 (9/16") COMPRESSION ADAPTER - 2V FORD



- For testing compression on 2V Ford Triton engines with 12mm and 16mm threads

# Gas/Petrol

## ENGINE OIL PRESSURE TESTING

### TU-4A

#### AUTOMATIC TRANSMISSION & ENGINE OIL PRESSURE TESTER



- Checks oil pressure in automatic transmissions and gasoline engines
- Tests most domestic and imported cars and light trucks
- More accurate than dashboard oil pressure gauges. Especially helpful on cars with dash indicator light only
- With 6 feet of nitrile (oil proof) hose to make testing easier, plus standard and metric fittings
- The 2-1/2" gauge has a dual scale dial with ranges from 0-300 PSI and 0-21 bar

### TU-11A

#### DELUXE AUTO TRANSMISSION & ENGINE OIL PRESSURE TESTER



- Checks oil pressure in automatic transmissions and gasoline engines
- Tests most domestic and imported cars and light trucks
- Lower scale is expanded to allow easier reading and therefore, more accurate reading at low pressure
- With 6 feet of nitrile (oil proof) hose to make testing easier, plus standard and metric fitting
- The 3-1/2" gauge has a dual scale dial with ranges from 0-400 PSI and 0-28 kg/cm2

### TU-12

#### ENGINE OIL PRESSURE TESTER



- Tests most domestic and imported cars and light trucks with gasoline engines
- More accurate than dashboard oil pressure gauges. A must for cars with dash indicator light only
- The 2-1/2" gauge has a dual scale dial with ranges from 0-100 PSI and 0-7 bar
- Hook on gauge enables the Technician to hang up gauge and hose assembly to free his hands

### TU-16A

#### QUICK CHANGE AUTOMATIC TRANSMISSION TO ENGINE OIL PRESSURE TESTER



- Checks engine oil pressure and automatic transmission pressure on cars, trucks, motorcycles, etc., both domestic and imports
- Set includes 21 color-coded standard and metric fittings, quick coupler connection on gauge for fast changing of gauges, 2-1/2" gauge has dual scale with ranges from 0-100 PSI and 0-28 bar, 3-1/2" gauge has dual scale dial with ranges from 0-400 PSI and 0-28 bar

### 70408

#### METRIC OIL AND TRANSMISSION ADAPTERS



- M12-1.5 Metric adapter
- M14-1.5 Metric adapter
- M18 -1.5 Metric adapter

## ENGINE OIL PRESSURE TESTING

### TU-26

#### GM TBI FUEL INJECTION THRU FILTER TEST SET (W/ MANIFOLD)



- This set has adapters (including manifold) for testing fuel pressure at the filter on GMTBI fuel systems
- Selecting the same adapter as the fuel filter, the adapter can then be screwed onto manifold by hand. Manifold connects to fuel lines in place of fuel filter
- Can be used with all Lang Tools Fuel Injection Testers and Cleaners, or others with a standard Schrader adapter

### TU-113C

#### FUEL INJECTION TESTER - U.S. AND IMPORTS



- This basic fuel injection tester includes large and small Schrader adapters, M6-1.00 O-ring adapter, and tee manifold
- Includes everything necessary to test the following systems: American Motors, Bosch AFC, MPC European and Japanese (except CIS) Chrysler Corporation, Ford Motor Company, GM (except TBI), Japanese fuel injection systems; and other systems using Bendix-type fuel injection or a Schrader-type valve, including the small Schrader valve found on TBI and multi-port fuel injection systems on Ford products
- The 2-1/2" gauge has a dual scale dial with ranges from 0-100 PSI and 0-7 bar

### TU-443

#### DELUXE FUEL INJECTION PRESSURE TEST SET



- The 3-1/2" gauge has a dual scale dial with ranges from 0-100 PSI and 0-7 bar
- Set has a relief valve and 6 ft. of tubing to relieve the pressure and the fuel safely. Also allows checking for sufficient fuel flow
- The 4 ft. gauge-hose and gauge with a hook can be hung up to free the Technician's hands
- The many adapters, hoses, and fittings cover most fuel injection systems worldwide
- A time-saving quick coupler connection at the end of the gauge hose makes a speedy and efficient coupling possible with the adapters

### TU-446C

#### BASIC FUEL INJECTION PRESSURE TEST SET - GM T.B.I.



- Test cars with single and dual injectors
- Only use this tester on GMTBI. (For all other TBI, use our TU-448U)
- Set includes: 2-1/2" gauge has a dual scale dial with ranges from 0-60 PSI and 0-4 bar, with hook which enables the technician to hang up gauge and hose assembly to free his hands; 16" gauge hose with quick coupler, all necessary adapters, and quick disconnect hose assembly for fast and efficient service

### TU-447C

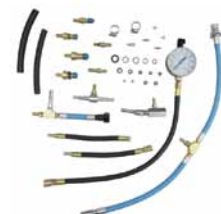
#### BASIC FUEL INJECTION TESTER - BOSCH C.I.S.



- This in-line tester enables the technician to find bad fuel pumps, bad pressure regulators, leaking injectors, and clogged fuel filters
- The 2-1/2" gauge (with hook for hands-free use) has a dual scale dial with ranges from 0-100 PSI and 0-7 bar
- Includes: Banjo Bolt fittings, 16" gauge hose, and quick disconnect CIS hose assembly for fast and accurate servicing

### TU-448C

#### BASIC FUEL INJECTION PRESSURE TESTER



- This set includes everything to test the following: Bosch AFC, MPC, Digijet/ Digifant (except CIS), Chrysler Corporation, Ford Motor Company, General Motors (except TBI), Japanese Fuel Injection Systems, others using Bendix-type fuel injection or Schrader-type valve, including the small Schrader valve found on Ford products
- The 2-1/2" gauge (with hook for hands-free use) has a dual scale dial with ranges from 0-100 PSI and 0-7 bar
- Includes banjo bolts, 16" gauge hose assembly, and quick coupler connection which makes a speedy and efficient coupling possible with the multitude of included adapters

# Gas/Petrol

## FUEL INJECTION PRESSURE TESTING

### TU-449

#### HARLEY FUEL PRESSURE TEST KIT



- Use to diagnose driveability issues on fuel injected Harley-Davidson motorcycles
- Easy installation for in-line service of the motorcycle's fuel injection system
- Uses special adapter for HD test port

### TU-457P

#### FUEL INJECTION TESTER - GM - MULTI PORT ONLY



- For GM domestic cars with large Schrader adapter- light trucks, vans, and sport-utility vehicles with multi-port
- The 2-1/2" gauge (with hook for hands free use) has a dual scale dial with ranges from 0-100 PSI and 0-7 bar

### TU-469

#### FUEL INJECTION PRESSURE TESTER WITH SCHRADER ADAPTERS



- Enables testing on all cars with standard or small Schrader valves
- The 3-1/2" gauge (with hook for hands free use) has a dual scale dial with ranges from 0-100 PSI and 0-7 bar
- Quick Coupler connection at end of gauge hose (other QC adapters can be purchased as needed)

### TU-470B

#### FUEL INJECTION CLEANER- 2 GAUGES



- Two gauges enable a technician to check the vehicle fuel pressure with the bottom gauge, and then easily set cleaning pressure with the top gauge by referring to vehicle fuel pressure on the bottom gauge
- Cleans carbon from intake valves, fuel passages, and cylinders with a professional carbon cleaning solution, which will restore the original spray pattern more effectively, giving improved performance, fuel economy, and emission tests
- Both gauges are 2-1/4" and have dual scale dials with ranges from 0-100 PSI and 0-7 bar

### TU-480A

#### FUEL INJECTION PRESSURE TESTER AND CANISTER CLEANER COMBO



- This combo set of the TU-443 and the TU-470B allows cleaning and pressure testing of most fuel injection systems worldwide
- Two gauges enable a technician to check the vehicle fuel pressure with the bottom gauge, and easily set cleaning pressure with the top gauge
- Will restore original spray pattern, giving improved performance, fuel economy and emission tests
- Also cleans carbon from intake valves, fuel passages and cylinders with a professional carbon cleaning solution

### TU-485A

#### FUEL INJECTION PRESSURE TESTER AND CLEANER SET



- Includes 2-gauge fuel injection canister cleaner, part TU-470B
- Contains right angle adapters for Ford, GM etc; deadhead pressure check adapter; and quick connects for Chrysler, GM etc
- Also included are: both Schrader adapters (standard and small), Ford adapters, banjo adapters (for major model imports), versatile manifold and repair parts kit

## FUEL INJECTION PRESSURE TESTING

### TU-550

#### MASTER GLOBAL FUEL INJECTION TEST KIT



- Covers all major domestic and foreign platforms 1988 to present (does not include CIS/TBI)
- Test gauge (includes boot for protection) assembly disconnects from test hose and valve assembly for easier storage and improved gauge protection
- Fuel line tee can accommodate 3/8" hose sizes in addition to the 1/4" and 5/16" previously accommodated hose sizes

### 74476

#### 6-FT. ROAD TESTER HOSE



- 6' extension hose works with any Lang fuel injection testers with quick connects

## FUEL INJECTION PRESSURE TESTER UPDATE KITS

### 74489

#### FUEL INJECTION UPDATE KIT I



- Consists of right angle adapters for Ford, GM, etc; deadhead pressure check adapter and quick connects for Chrysler, GM etc

### TU-443-2

#### FUEL INJECTION UPDATE KIT II (TU-443 TO TU550)



- Updates TU-443 enabling fuel injection pressure tests on all major vehicle platforms on the market thru 2012, domestic and foreign

### TU-443-3

#### FUEL INJECTION UPDATE KIT III (TU-443U TO TU550)



- Updates TU-443U enabling fuel injection pressure tests on all major vehicle platforms on the market thru 2012, domestic and foreign

### TU-540-1

#### FUEL INJECTION EXPANSION KIT FOR TU-540



- Expands TU-540, enabling fuel injection pressure tests on all major domestic and foreign vehicle platforms to present

### TU-540-2

#### CIS/TBI ADAPTER KIT



- Works in conjunction with TU-550 to cover fuel injection pressure testing on all major vehicle platforms on the market through 2005, domestic and foreign, including TBI and CIS

# Gas/Petrol

## FUEL INJECTION ADAPTERS & REPLACEMENT PARTS

**33062**

**HOSE 3/16" ID X 6 FEET**



**34021**

**1/4" I.D. X 6" FUEL HOSE**



**35031**

**5/16" I.D. X 6" FUEL HOSE**



**36032**

**3/8" I.D. X 6" FUEL HOSE**



**41303**

**3/16" HOSE BARB X QC BODY**



**41310**

**3/16 HOSE BARB X QC PLUG**



**41327**

**OTC QUICK COUPLER BODY**



**41576**

**BENT TUBE W/ 3/8" INVERTED FLARE NUT**



**43110**

**5 PACK - O-RING**



**43141**

**5 PACK - O-RING M14**



**60236**

**M16-1.50 FEMALE BY 3/8" TUBE END**



**60238**

**M14-1.50 FEMALE BY 3/8" TUBE END**



**60239**

**J-BODY ADAPTER**



**60410**

**M8-1.0 FEMALE BY M12-1.50 MALE**



**60440**

**M10-1.0 FEMALE BY M12-1.50 MALE**



**60772**

**OTC QUICK COUPLER PLUG**



**61333**

**6MM ADAPTER EXTENSION FOR KIA & HYUNDAI**



**71301**

**STANDARD SCHRADER HOSE ASSEMBLY**



**71302**

**SMALL PARTS KIT**



**71303**

**SMALL SCHRADER HOSE ASSEMBLY**



**71304**

**M6-1.0 (HONDA) HOSE ASSEMBLY**



**71305**

**VOLVO ADAPTER, 14MM LH JETRONIC**



**71306**

**M11 O-RING ADAPTER**



**71308**

**M14-1.50 3/8" INVERTED FLARE MALE AND FEMALE CONNECTIONS**



## FUEL INJECTION ADAPTERS & REPLACEMENT PARTS

**71313**

**FORD CFI  
ADAPTER,  
5/16" QUICK  
DISCONNECTS**



**71314**

**FORD EFI SPRING  
LOCK ADAPTER  
W/QUICK  
COUPLER PLUG**



**71315**

**SPRING LOCK  
ADAPTER W/  
SMALL  
SCHRADER**



**71316**

**ADAPTER,  
5/16" QUICK  
DISCONNECTS  
W/ SMALL  
SCHRADER**



**71317**

**MANIFOLD  
W/QUICK  
COUPLER  
PLUG**



**71318**

**STANDARD  
SCHRADER  
HOSE ASSEMBLY  
W/QUICK  
COUPLER  
PLUG**



**71319**

**SMALL  
SCHRADER  
HOSE ASSEM-  
BLY W/QUICK  
COUPLER PLUG**



**71321**

**M16 O-RING  
ADAPTER**



**71327**

**FUEL INJECTION  
KIT**



**71328**

**1/4" HOSE  
BARB W/QUICK  
COUPLER PLUG**



**71329**

**HOSE ASSEM-  
BLY (AUDI,  
VW, VOLVO)**



**71330**

**HOSE ASSEMBLY  
(TOYOTA, GEO)**



**71403**

**ADAPTER KIT**



**71404**

**ADAPTER M8-  
1.0 MALE BY  
M12-1.50 MALE  
W/O-RING**



**71405**

**ADAPTER M  
10-1.0 MALE  
BY M12-1.50  
MALE W/O-RING**



**71406**

**ADAPTER M8-  
1.0 MALE BY  
M12-1.50 MALE  
W/O-RING  
(3" OVERALL)**



**71408**

**CONNECTING  
HOSE AND VALVE  
ASSEMBLY FOR  
BOSCH CIS**



**71409**

**CIS & BANJO  
BOLD ADAPTER  
SET**



**72305**

**BENT TUBING W/  
3/8" INVERTED  
FLARE NUT BY  
M16-1.50 NUT,  
3/8" O-RING  
FLARE**



**72306**

**ADAPTER M16-  
1.50 THREAD  
W/ 3/8" O-RING  
FLARE BY  
3/8" TUBE  
FITTING**



**72308**

**CONNECTING  
HOSE FOR GM  
TBI 3/8" INVER-  
TED FLARE ENDS  
W/QUICK  
COUPLER PLUG**



**72309**

**ADAPTER M14-  
1.50 THREAD W/  
3/8" O-RING  
FLARE BY 3/8"  
TUBE FITTING**

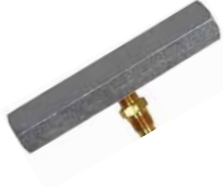


# Gas/Petrol

## FUEL INJECTION ADAPTERS & REPLACEMENT PARTS

**72315**

**MANIFOLD W/  
SCHRADER**



**72316**

**ADAPTER  
ASSEMBLY**



**72317**

**ADAPTER  
ASSEMBLY**



**72318**

**ADAPTER  
ASSEMBLY**



**72319**

**ADAPTER  
ASSEMBLY**



**72320**

**ADAPTER  
ASSEMBLY**



**72322**

**ADAPTER SET  
CONSISTING OF:  
60236, 72305, &  
72306**



**72323**

**ADAPTER KIT**



**74424**

**100 PSI GAUGE**



**74425**

**RELEASE VALVE  
TUBING**



**74426**

**M12-1.00  
HONDA PULSE  
DAMPENER  
ADAPTER**



**74431**

**BANJO BOLT M6-  
1.0 WITH O-RING**



**74432**

**BANJO BOLT  
M8-1.0 WITH  
NYLOTRON  
WASHER**



**74433**

**BANJO BOLT  
M10-1.0  
W/ NYLOTRON  
WASHER**



**74434**

**BANJO BOLT  
M12-1.25 WITH  
NYLOTRON WASHER**



**74435**

**BANJO BOLT  
M12-1.50 W/  
NYLOTRON  
WASHER**



**74437**

**REPAIR PARTS KIT**



**74438**

**100 PSI GAUGE  
HOSE AND RELIEF  
VALVE**



**74440**

**2-1/2" (100 PSI)  
GAUGE AND HOSE**



**74442**

**2-1/2" (60 PSI)  
GAUGE AND HOSE**



## FUEL INJECTION ADAPTERS & REPLACEMENT PARTS

**74444**

**BOSCH CIS  
UP-GRADE KIT**



**74445**

**UPGRADE KIT  
(EXCEPT CIS/TBI)**



**74446**

**RELIEF VALVE  
AND TUBING  
ASSEMBLY**



**74454**

**OTC CONVER-  
SION, USE  
ADAPTERS W/  
OTC CANISTER**



**74455**

**TUBING KIT  
3/8" TUBE  
W/ INVERTED  
FLARE NUTS  
& HOSE CLAMPS**



**74459**

**QUICK COUPLER  
SOCKET BY  
MALE STANDARD  
SCHRADER**



**74469**

**CONVERSION  
ADAPTER FOR OTC  
ADAPTERS**



**74471**

**M14-1.50 BANJO  
BOLT (FOR CIS)**



**74476**

**6-FT. ROAD  
TESTER HOSE**



**74484**

**5/16" QUICK DIS-  
CONNECT HOSE  
ASSEMBLY W/  
QUICK COUPLER  
PLUG: CHRYSLER/  
FORD**



**74485**

**3/8" QUICK DIS-  
CONNECT HOSE  
ASSEMBLY W/  
QUICK COUPLER  
PLUG: GM**



**74486**

**GSI CONVERSION,  
USE GSI ADAPTERS  
W/ STAR CANISTER**



**74487**

**HOSE ASSEMBLY:  
74484 & 74485**



**74488**

**HOSE ASSEMBLY:  
74492 & 74493**



**74492**

**5/16" QUICK  
DISCONNECT  
HOSE ASSEMBLY  
W/ STANDARD  
SCHRADER  
TEST PORT**



**74493**

**3/8" QUICK DIS-  
CONNECT HOSE  
ASSEMBLY W/  
STANDARD  
SCHRADER  
TEST PORT**



**74494**

**GM TUBING KIT**



**74495**

**GM ADAPTER KIT**



**74499**

**1/4" QUICK DIS-  
CONNECT HOSE  
W/STANDARD  
SCHRADER**



**74571**

**GAUGE & HOSE  
ASSEMBLY**



**74701**

**GAUGE & HARD-  
WARE ASSEMBLY**



**74851**

**DEADHEAD  
ALUMINUM  
ADAPTER**



**74852**

**SCHRADER GM  
RIGHT ANGLE  
ADAPTER**



**74853**

**SMALL SCHRADER  
RIGHT ANGLE  
ADAPTER**



**74854**

**FUEL INJECTION  
UPDATE KIT**



# Gas/Petrol

## FUEL INJECTION ADAPTERS & REPLACEMENT PARTS

Part No.	Description	TU-26	TU-113	TU-443	TU-446	TU-447	TU-448	TU-457	TU-469	TU-480A	TU-485A	TU-540	TU-550	74476	74489	TU-443-2	TU-443-3	TU-540-1	TU-540-2
2088	Black Plastic Case											•							
33062	Hose 3/16" ID x 6 feet													•					
34021	Hose 1/4" ID x 6"										•								
35031	Hose 5/16" ID x 6"										•								
36032	Hose 3/8" ID x 6"				•														•
41303	3/16" hose barb x quick coupler body													•					
41310	3/16" hose barb x quick coupler plug													•					
41327	Female quick coupler plug, conversion adapter for OTC																		
41576	Bent tube with 3/8" inverted flare nut			•						•									
43110	O-ring 5/16" x 7/16"																•	•	
43141	O-ring M14 .424" ID x .103"																•	•	
52003	Red Plastic Case												•						
52101	Gray Plastic Case	•	•								•								
52105	Gray Plastic Case			•						•									
52107	Gray Plastic Case				•	•	•												
52110	Gray Plastic Case							•											
60236	M14x1.50 female by 3/8" tube end			•						•									•
60238	M16x1.50 female by 3/8" tube end			•						•									•
60239	Union 3/8" inverted flare by M16x1.50			•						•									•
60410	M8x1.00 female by M12x1.50 male			•						•									
60440	M10x1.00 female by M12x1.50 male			•						•									
60507	21-oz bottle Lang branded										•								
60772	Male quick coupler plug, conversion adapter for OTC																		
61333	6mm adapter extensions for Kia and Hyundai																		
71301	Standard Schrader hose assembly		•																
71302	Small parts kit		•																
71303	Small Schrader hose assembly		•																
71304	M6x1.00 (Honda) hose assembly		•																
71305	Volvo adapter, 14mm LH Jetronic			•						•		•							
71306	11mm o-ring adapter for popular Nissan and Infiniti												•				•	•	•
71308	Adapter for Geo Storm and Isuzu I-Tec systems, M14x1.50 3/8" inverted flare male and female connections			•			•			•									

## FUEL INJECTION ADAPTERS & REPLACEMENT PARTS

Part No.	Description	TU-26	TU-113	TU-443	TU-446	TU-447	TU-448	TU-457	TU-469	TU-480A	TU-485A	TU-540	TU-550	74476	74489	TU-443-2	TU-443-3	TU-540-1	TU-540-2
71313	Ford EFI spring lock adapter with quick coupler plug			•			•			•	•	•	•						
71314	Ford CFI adapter, 5/16" quick disconnects			•			•			•	•								
71315	Ford EFI spring lock adapter with small Schrader test port																		
71316	Ford CFI adapter, 5/16" quick disconnects with small Schrader test port																		
71317	Manifold with quick coupler plug for 5/16" and 1/4" ID hose			•						•	•	•	•						
71318	Standard Schrader hose assembly with quick coupler plug			•			•		•	•	•	•	•						
71319	Small Schrader hose assembly with quick coupler plug			•			•		•	•	•	•	•						
71321	16mm o-ring adapter for popular Hyundai and Mitsubishi											•	•			•	•		
71327	Kit contains: 34021, 35031, 71317, 71328, 74431, 74432, 74433, 74434 and 74435						•												
71328	1/4" hose barb with quick coupler plug			•						•									
71329	Hose assembly (Audi, VW, Volvo)												•					•	
71330	Hose assembly (Toyota, Geo)												•					•	
71403	Adapter Kit																		•
71404	Adapter M8x1.00 male by M12x1.50 male with o-ring			•						•									
71405	Adapter M10x1.00 male by M12x1.50 male with o-ring			•						•									
71406	Adapter M8x1.00 male by M12x1.50 male with o-ring (3" overall)			•						•									
71408	Connecting hose and valve assembly for Bosch CIS			•		•				•									•
71409	CIS and banjo bolt adapter set consists of: 60410, 60440, 71404, 71405, 71406, 74432, 74433, 74435					•													
72305	Bent tubing with 3/8" inverted flare nut by M16x1.50 nut, 3/8" o-ring flare			•						•									
72306	Adapter M16x1.50 thread with 3/8" o-ring flare by 3/8" tube fitting			•						•									•
72308	Connecting hose for GMTBI 3/8" inverted flare ends with quick coupler plug			•	•					•									•
72309	Adapter M14x1.50 thread with 3/8" o-ring flare by 3/8" tube fitting			•						•									•

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## FUEL INJECTION ADAPTERS & REPLACEMENT PARTS

Part No.	Description	TU-26	TU-113	TU-443	TU-446	TU-447	TU-448	TU-457	TU-469	TU-480A	TU-485A	TU-540	TU-550	74476	74489	TU-443-2	TU-443-3	TU-540-1	TU-540-2
72315	Manifold with standard Schrader	●																	
72316	3/8" male stem adapter GM/TBI	●																	
72317	3/8" flare adapter GM/TBI	●																	
72318	M16x1.50 GMTBI adapter	●																	
72319	M16x1.50 female by 3/8" quick coupler plug	●																	
72320	M16x1.50 long stem quick coupler GM/TBI	●																	
72321	Cut hose, 3 pieces. Consists of: 34201,35031 and 36032			●						●		●	●						
72322	Consists of 60236, 72305 and 72306																		
74423	Repair parts kit											●	●						
74424	Gauge assembly											●	●						
74425	Hose assembly											●	●						
74426	M12x1.00 Honda pulse dampener adapter												●			●	●	●	
74431	Banjo bolt M6x1.00 with o-ring			●						●	●		●					●	
74432	Banjo bolt M8x1.00 with nylotron washer			●						●	●	●	●						
74433	Banjo bolt M10x1.00 with nylotron washer			●						●	●		●					●	
74434	Banjo bolt M12x1.25 with nylotron washer			●						●	●		●					●	
74435	Banjo bolt M12x1.50 with nylotron washer			●						●	●	●	●						
74437	Repair parts kit			●	●	●	●			●	●								●
74438	100 PSI gauge, hose and relief valve			●					●	●									
74440	100 PSI gauge and hose					●	●												
74442	60 PSI gauge and hose				●														
74444	Bosch CIS kit: 71408 and 71409																		
74445	Upgrade kit (except CIS/TBI): 71308, 71313, 71314, 71318, 71319 and 71327																		
74446	Relief valve and tubing assembly																		
74454	OTC-style conversion adapter, use Lang adapters with OTC canister																		
74455	Straight tubing, nut and clamp parts kit			●	●					●		●	●						●
74459	Quick coupler socket by male standard Schrader																		
74469	Conversion adapter OTC																		

## FUEL INJECTION ADAPTERS & REPLACEMENT PARTS

Part No.	Description	TU-26	TU-113	TU-443	TU-446	TU-447	TU-448	TU-457	TU-469	TU-480A	TU-485A	TU-540	TU-550	74476	74489	TU-443-2	TU-443-3	TU-540-1	TU-540-2
74471	M14x1.50 banjo bolt (for CIS)											•	•			•	•		
74476	Road tester hose													•					
74484	5/16" quick disconnect hose assembly with quick coupler plug: Chrysler, Ford										•	•	•		•	•			
74485	3/8" quick disconnect hose assembly with quick coupler plug: GM										•	•	•		•	•			
74486	GSI conversion adapter, use GSI adapters with Lang gauges and canister																		
74487	Hose assembly: 74484 and 74485																		
74488	Hose assembly: 74492 and 74493																		
74492	5/16" quick disconnect hose assembly with standard Schrader test port																		
74493	3/8" quick disconnect hose assembly with standard Schrader test port																		
74494	GM tubing kit, consists of adapters: 41576 and 72305				•														•
74495	GM adapter kit, consists of adapters: 60236, 60238, 60239, 72306, 72309 and 74434				•														
74499	1/4" quick disconnect hose assembly with quick coupler plug																		
74571	Gauge and hose assembly							•											
74701	Gauge and hardware assembly										•								
74852	Standard Schrader right angle adapter with quick coupler plug												•		•				
74853	Small Schrader right angle adapter with quick coupler plug												•		•				
74854	Fuel injection update kit, consists of adapters: 74851, 74852 and 74853										•					•		•	

# Gas/Petrol

## MISCELLANEOUS TEST EQUIPMENT

### TU-1

#### DELUXE VACUUM & FUEL PUMP TESTER



- Comes complete with 2 feet of high quality hose, plus 3 fittings to test all domestic and foreign cars and trucks with gasoline engines
- The 3-1/2" compound gauge has a multicolor dual scale dial with ranges from 0-10 PSI / 0-0.7 kg/cm<sup>2</sup> pressure; and 0-28 inHg / 0-70 cmHg vacuum
- Hook on gauge enables the technician to hang up gauge and hose assembly to free his hands
- Assists in diagnosing a variety of problems: fuel pump pressure; leaky, burnt, or sticky valves; leaky intake manifold; restricted exhaust systems; turbo pressures; worn piston rings; incorrect timing; heating and air conditioning controls; wind shield wipers; power brakes; emission control devices

### TU-24A

#### THREE-WAY EXHAUST BACK PRESSURE KIT



- This Three-Way tester allows quicker and more accurate testing of exhaust blockages in catalytic converters, mufflers, etc
- The 2-1/4" special gauge has two multi-colored bands for measuring at Idle and 2500 RPM. The scale ranges are in PSI and bar. Boot included on gauge for extra protection
- Hose is 6 feet, enough length for the technician to test from the drivers seat
- Can test in THREE different places: Oxygen Sensor, Exhaust Pipes, and Air Injection System

### TU-2

#### FLEXIBLE VALVE AIR-HOLD TOOL



- This tool allows replacement of valve seals and broken or weak valve springs on OHV and OHC engines without removing the head by applying air to cylinder through spark plug hole
- Flexible design makes job easier and quicker where spark plug holes are hard to get at
- Overall length 13-in., with one end 14mm and 18mm threads fit spark plug hole. Other end 1/4-in. female pipe thread for coupler plug attachment
- After attaching plug and quick coupler, air pressure keeps valve closed while working

### TU-25

#### STANDARD VACUUM & FUEL PUMP TESTER



- Assists in diagnosing a variety of problems on domestic and imported vehicles: fuel pump pressure; leaky, burnt, or sticky valves; leaky intake manifold; restricted exhaust systems; turbo pressures; worn piston rings; incorrect timing; heating and air conditioning controls; wind shield wipers; power brakes; emission control devices
- The 2-1/4" compound gauge has a multicolor dual scale dial with ranges from 0-10 PSI / 0-0.7 kg/cm<sup>2</sup> pressure; and 0-30 inHg / 0-1.0 bar vacuum
- Complete with hose, fittings, instructions, and specifications

### TU-22A

#### POWER STEERING & RACK TESTER



- Takes the guesswork out of power steering analysis quickly and accurately, by detecting defective power steering pumps; gears, plus kinked or clogged lines
- Includes most adapters to test domestic cars and light trucks, and some imports
- The 2-1/4" gauge has a dual scale dial with ranges from 0-2000 PSI and 0-140 bar

### TU-29

#### BASIC EXHAUST BACK PRESSURE KIT



- Enables technician to test exhaust back pressure thru oxygen sensor
- Oxygen Sensor adapter includes M12 and M18 thread
- The special 2-1/4" gauge has two multi-colored bands - idle and 2500 RPM, with pressures shown in PSI and bar; includes boot for protection
- Hose is 6 feet, enough length for the technician to test from the driver's seat

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